Open a new Excel workbook and save it as "Solutions to Exercises"

| DEPT  | DESGN  | BASIC SAIDA  | HRA  | TOTAL   |
|-------|--|--|--|---|
| ACCN  |  | 3000   |  |   |
| ACCN  |  | 4000   |  |   |
| SALES |  | 1500   |  |   |
| SALES |  | 3000   |  |   |
| ACCN  |  | 1650   |  |   |
| SALES |  | 1560   |  |   |
| PROD  |  | 3000   |  |   |
| ADMIN |  | 1750   |  |   |
| PROD  |  | 3000   |  |   |
| SALES |  | 1575   |  |   |
| ACCN  |  | 4000   |  |   |
| ACCN  |  | 2000   |  |   |
| SALES |  | 3000   |  |   |
| PROD  |  | 5000   |  |   |
| ACCN  |  | 4000   |  |   |
|       | DEPT<br>ACCN<br>ACCN<br>SALES<br>SALES<br>ACCN<br>SALES<br>PROD<br>ADMIN<br>PROD<br>SALES<br>ACCN<br>SALES<br>PROD<br>ACCN | DEPT DESGN<br>ACCN<br>ACCN<br>SALES<br>SALES<br>ACCN<br>SALES<br>PROD<br>ADMIN<br>PROD<br>SALES<br>ACCN<br>ACCN<br>SALES<br>PROD<br>ACCN | DEPT DESGN BASIC SAIDA   ACCN 3000   ACCN 4000   SALES 1500   SALES 3000   ACCN 1650   SALES 1560   PROD 3000   ADMIN 1750   PROD 3000   SALES 1575   ACCN 4000   SALES 3000   PROD 3000   SALES 1575   ACCN 2000   SALES 3000   PROD 5000   ACCN 4000 | DEPT DESGN BASIC SAIDA HRA   ACCN 3000 ACCN 4000   ACCN 4000 SALES 1500   SALES 1500 SALES 3000   ACCN 1650 SALES 1560   PROD 3000 ADMIN 1750   PROD 3000 SALES 1575   ACCN 4000 ACCN 2000   SALES 3000 SALES 4000   ACCN 2000 SALES 3000   PROD 5000 ACCN 4000 |

RENAME SHEET1 AS "Basic Concepts".In this sheet copy the following table and >

1.Insert an autofill series for the employee code in the format A01,A02.... Etc

2.Generate a list of the employees working in your organisation, in the same order **automatically** by taking the n Deepak Inderjit Arun Tarun George Nirmala Rajan Naseer Arjun Saji

3. Under the Desgn Column,add a suitable validation in a manner that the entries can be either "manager", "sr me (note: the user should choose the desgn options from a drop down menu.he should not be allowed to make any c Then insert the Dsignations in the following order for each of the employees:

Deepak Inderjit Arun Tarun George Nirmala Rajan Naseer Arjun Saji Manager Sr Manage Executive Manager Executive Executive Manager Executive Manager Executive

4. Format the DEPT column such that all the Similar depts have the same format

5.Insert the following comment against the Designation Column heading

Please choose the designations from the drop-down menu against each of the cells.

6.Create an AutoCorrect entry for your company name.Give the same as the Heading for this Salary statement.

8.Save the "Solutions to Exercises" file with a Password such that only you are allowed to access it.

9.Rename Sheet2 as " Dummy".Copy the updated data in "Basic Concepts sheet" and paste it in a manner that  $\epsilon$  (To check change the basic salary of Arun to 1750 and observe the changes.

10.Create Cell Names for each of the Column headings in the Above table. Using these Cell Names, in the Dum

and the Gross Salaries for all the Employees

11.Transpose the above table and paste it in the "Dummy Sheet"

ames from the list below:<br/>KapilRahulSaketSanjayGeethaanager", "executive" or "admin"<br/>other entries nor should he be allowed to type)KapilRahulSaketSanjayGeetha

Sr Manage Executive Manager Executive Sr Manager

any changes made to the original table will be reflected in the "Dummy" sheet

my Sheet ,calculate the Total Basic,Hra,DA

## Rename Sheet 3 as "Functions" and derive solutions for the following queries:

## **CALCULATING ESTIMATES**

You have received an enquiry for the supply of open storage tanks of one metre diameter. You have to estimate the cost and prepare quotations with the details given below.

Consider the Table given below:

Drawing no: AAB/PROJ/PL2/EQP3/ASS1 Material requirement for the tank of one metre diameter:

| SLNO | ITEM/MATERIAL       | Wt   | Wastage allowance |
|------|---------------------|------|-------------------|
|      |                     | (kg) | 0.1               |
| 1    | ms sheet 4mm        | 109  |                   |
| 2    | ms p1 6 mm          | 41   |                   |
| 3    | ms p1 10mm          | 4    |                   |
| 4    | ms p1 10mm          | 0.8  |                   |
|      | TOTAL MATERIAL COST |      |                   |

Material cost@ Rs.20/kg.

## **QUESTION A**

1.Calculate wastage at 10% on the relevant weights for each material/ITEM and enter it in the 2.Calculate total weight by adding weight and wastage allowance for each material/ITEM in t 3.Open a new column and calculate the cost by multiplying TOTAL WEIGHT COLUMN with tl Rename this column as "COST"

4. Calculate the TOTAL MATERIAL COST FOR ALL THE ITEMS/MATERIALS

## **QUESTION B**

1.Calculate the following: (PRINT RESULTS IN THE SHADED GREEN AREAS)



| 1.VALVE                                 |                                   |
|---|-----------------------------------|
| =4^ RS 100                              |                                   |
| 2.LEVEL GAUGE                           |                                   |
| =4* Rs 1000                             |                                   |
| TOTAL BOUGHT OUT COMPONENTS             |                                   |
|   |                                   |
|   | QUESTION D                        |
| CONSOLIDATION                           |                                   |
| 1 RAW MATERIAL COST                     | 0                                 |
| (PRINT TOTAL MATERIAL COST VALUE FROM Q | UESTION A USING PASTE SPECIAL)    |
| 2 LABOUR CHARGES                        |                                   |
| (PRINT TOTAL CONVERSION COST VALUE FROM | I QUESTION B USING PASTE SPECIAL) |
| 3 BOUGHT OUT COMPONENTS                 |                                   |
| (PRINT TOTAL BOUGHT OUT COST VALUE FROI | I QUESTION C USING PASTE SPECIAL) |
| 4 CONSOLIDATED TOTAL                    |                                   |
| =RAW MATERIAL COST+LABOUR CHARGES+BC    | DUGHT OUT COMPONENTS              |
|   | QUESTION E                        |
| Calculate the following:                |                                   |
|   |                                   |
| 1 ADMIN                                 |                                   |
| =30% * CONSOLIDATED TOTAL               |                                   |
| 2 COMMISSION                            |                                   |
| =5% * CONSOLIDATED TOTAL                |                                   |
| 3 NEGOTIATION MARGIN                    |                                   |
| =10% * CONSOLIDATED TOTAL               |                                   |
| 4 TOTAL QUOTE                           |                                   |
| =ADMIN+COMMISION+NEGOTIATION+CONSOLI    | DATED TOTAL                       |
|   |                                   |

20

| Total wt. | COST |  |
|-----------|------|--|
| (kg)      |      |  |
|           |      |  |
|           |      |  |
|           |      |  |
|           |      |  |
|           |      |  |

अASTAGE ALLOWANCE COLUMN he TOTAL WEIGHT COLUMN. he MATERIAL COST

| SI No | Name   | Month | Account  | Sales |
|-------|--------|-------|----------|-------|
| 1.    | Wilson | Мау   | BCD Corp | 35000 |
|       |        |       |          |       |

| SI No | Name     | Month |
|-------|----------|-------|
| 17.   | Benedict | July  |
|       |          |       |

| 2. | Lorenzo | Мау | Rosebud ( | 45000 |
|----|---------|-----|-----------|-------|
|    |         |     |           |       |

| 12. | Benedict | June |
|-----|----------|------|
|     |          |      |

| 3. | Wilson | Мау | Gen Corp | 26000 |
|----|--------|-----|----------|-------|
|    |        |     |          |       |

| 7. | Benedict | Мау |
|----|----------|-----|
|    |          |     |

| 4. | Benedict | Мау | OH Assoc | 78000 |
|----|----------|-----|----------|-------|
|    |          |     |          |       |

| 4. | Benedict | Мау |
|----|----------|-----|
|    |          |     |

| Mav Max |
|---------|
|         |

| 5. | Horwitz | Мау | World Inc | 55000 |
|----|---------|-----|-----------|-------|
|    |         |     |           |       |

| 1 | 5. | Horwitz | July |
|---|----|---------|------|
|   |    |         |      |

| 6. | Wilson | Мау | Rosebud ( | 68000 |
|----|--------|-----|-----------|-------|
|    |        |     |           |       |

| 18. | Horwitz | July |
|-----|---------|------|
|     |         |      |

| 7. | Benedict | Мау | BCD Corp | 95000 |
|----|----------|-----|----------|-------|
|    |          |     |          |       |

| 10. | Horwitz | June |
|-----|---------|------|
|     |         |      |

| 8. | Lorenzo | Мау | World Inc | 15000 |
|----|---------|-----|-----------|-------|
|    |         |     |           |       |

| 13. | Horwitz | June |
|-----|---------|------|
|     |         |      |

| 9. | Lorenzo | June | Gen Corp | 20000 |
|----|---------|------|----------|-------|
|    |         |      |          |       |

| 5. | Horwitz | Мау |
|----|---------|-----|
|    |         |     |

| Mav Max |
|---------|
|         |

| 10. | Horwitz | June | BCD Corp | 37000 |
|-----|---------|------|----------|-------|
|     |         |      |          |       |

| 19. | Lorenzo | July |
|-----|---------|------|
|     |         |      |

| 11. | Wilson | June | Gen Corp | 40000 |
|-----|--------|------|----------|-------|
|     |        |      |          |       |

| 9. | Lorenzo | June |
|----|---------|------|
|    |         |      |

| 12. | Benedict | June | Rosebud ( | 36000 |
|-----|----------|------|-----------|-------|
|     |          |      |           |       |

| 14. | Lorenzo | June |
|-----|---------|------|
|     |         |      |

| 13. | Horwitz | June | World Inc | 14000 |
|-----|---------|------|-----------|-------|
|     |         |      |           |       |

| 2. | Lorenzo | Мау |
|----|---------|-----|
|    |         |     |

| 14. | Lorenzo | June | OH Assoc | 55000 |
|-----|---------|------|----------|-------|
|     |         |      |          |       |

| 8. | Lorenzo | Мау |
|----|---------|-----|
|    |         |     |

| Mav Max |
|---------|
|         |

| 15. | Horwitz | July | BCD Corp | 65000 |
|-----|---------|------|----------|-------|
|     |         |      |          |       |

| <b>16</b> . | Wilson | July |
|-------------|--------|------|
|             |        |      |

| 16. | Wilson | July | OH Assoc | 80000 |
|-----|--------|------|----------|-------|
|     |        |      |          |       |

| 11. | Wilson | June |
|-----|--------|------|
|     |        |      |

| 17. | Benedict | July | Rosebud ( | 72500 |
|-----|----------|------|-----------|-------|
|     |          |      |           |       |

| 1. | Wilson | Мау |
|----|--------|-----|
|    |        |     |
| 18. | Horwitz | July | Gen Corp | 66000 |
|-----|---------|------|----------|-------|
|     |         |      |          |       |

| 3. | Wilson | Мау |
|----|--------|-----|
|    |        |     |

| 19. Lorenzo | July | World Inc | 125000 |
|-------------|------|-----------|--------|
|-------------|------|-----------|--------|

6. Wilson May

May Max Grand Max

# Highest sales month-wise for each month

| SI No | Name     | Month | Account   | Sales  |
|-------|----------|-------|-----------|--------|
| 1.    | Wilson   | Мау   | BCD Corp  | 35000  |
| 2.    | Lorenzo  | Мау   | Rosebud ( | 45000  |
| 3.    | Wilson   | Мау   | Gen Corp  | 26000  |
| 4.    | Benedict | Мау   | OH Assoc  | 78000  |
| 5.    | Horwitz  | Мау   | World Inc | 55000  |
| 6.    | Wilson   | Мау   | Rosebud ( | 68000  |
| 7.    | Benedict | Мау   | BCD Corp  | 95000  |
| 8.    | Lorenzo  | Мау   | World Inc | 15000  |
| 9.    | Lorenzo  | June  | Gen Corp  | 20000  |
| 10.   | Horwitz  | June  | BCD Corp  | 37000  |
| 11.   | Wilson   | June  | Gen Corp  | 40000  |
| 12.   | Benedict | June  | Rosebud ( | 36000  |
| 13.   | Horwitz  | June  | World Inc | 14000  |
| 14.   | Lorenzo  | June  | OH Assoc  | 55000  |
| 15.   | Horwitz  | July  | BCD Corp  | 65000  |
| 16.   | Wilson   | July  | OH Assoc  | 80000  |
| 17.   | Benedict | July  | Rosebud ( | 72500  |
| 18.   | Horwitz  | July  | Gen Corp  | 66000  |
| 19.   | Lorenzo  | July  | World Inc | 125000 |

| Account   | Sales |
|-----------|-------|
| Rosebud ( | 72500 |
| Rosebud ( | 72500 |

| 7250 | 0 |
|------|---|
|------|---|

| Rosebud ( | 36000 |
|-----------|-------|
| Rosebud ( | 36000 |

| 36000 |
|-------|
|-------|

| BCD Corp | 95000 |
|----------|-------|
| BCD Corp | 95000 |

| OH Assoc | 78000 |
|----------|-------|
| OH Assoc | 78000 |

| 95000 |
|-------|
|-------|

| BCD Corp | 65000 |
|----------|-------|
| BCD Corp | 65000 |

| Gen Corp | 66000 |
|----------|-------|
| Gen Corp | 66000 |

| <b></b> | 00000 |
|---------|-------|
|         | 66000 |

| BCD Corp | 37000 |
|----------|-------|
| BCD Corp | 37000 |

| World Inc | 14000 |
|-----------|-------|
| World Inc | 14000 |

|  | 37000 |
|--|-------|
|--|-------|

| World Inc | 55000 |
|-----------|-------|
| World Inc | 55000 |

| 55000 |
|-------|
|-------|

| World Inc | 125000 |
|-----------|--------|
| World Inc | 125000 |

| 125000 |
|--------|
|        |

| Gen Corp | 20000 |
|----------|-------|
| Gen Corp | 20000 |

| OH Assoc | 55000 |
|----------|-------|
| OH Assoc | 55000 |

| 55000 |
|-------|
|-------|

| Rosebud ( | 45000 |
|-----------|-------|
| Rosebud ( | 45000 |

| World Inc | 15000 |
|-----------|-------|
| World Inc | 15000 |

| 45000 |
|-------|

| OH Assoc | 80000 |
|----------|-------|
| OH Assoc | 80000 |

|--|

| Gen Corp | 40000 |
|----------|-------|
| Gen Corp | 40000 |

| 40000 |
|-------|
|-------|

| BCD Corp | 35000 |
|----------|-------|
| BCD Corp | 35000 |

| Gen Corp | 26000 |
|----------|-------|
| Gen Corp | 26000 |

| Rosebud ( | 68000  |
|-----------|--------|
| Rosebud ( | 68000  |
|           | 68000  |
| C         | 125000 |

Rename Sheet 4as "Filters" and derive solutions for the following queries: QUESTION A

| SI No | Name     | Month | Account      | Sales  |
|-------|----------|-------|--------------|--------|
| 1.    | Wilson   | Мау   | BCD Corp     | 35000  |
| 2.    | Lorenzo  | May   | Rosebud Corp | 45000  |
| 3.    | Wilson   | May   | Gen Corp     | 26000  |
| 4.    | Benedict | May   | OH Assoc     | 78000  |
| 5.    | Horwitz  | Мау   | World Inc    | 55000  |
| 6.    | Wilson   | May   | Rosebud Corp | 68000  |
| 7.    | Benedict | Мау   | BCD Corp     | 95000  |
| 8.    | Lorenzo  | Мау   | World Inc    | 15000  |
| 9.    | Lorenzo  | June  | Gen Corp     | 20000  |
| 10.   | Horwitz  | June  | BCD Corp     | 37000  |
| 11.   | Wilson   | June  | Gen Corp     | 40000  |
| 12.   | Benedict | June  | Rosebud Corp | 36000  |
| 13.   | Horwitz  | June  | World Inc    | 14000  |
| 14.   | Lorenzo  | June  | OH Assoc     | 55000  |
| 15.   | Horwitz  | July  | BCD Corp     | 65000  |
| 16.   | Wilson   | July  | OH Assoc     | 80000  |
| 17.   | Benedict | July  | Rosebud Corp | 72500  |
| 18.   | Horwitz  | July  | Gen Corp     | 66000  |
| 19.   | Lorenzo  | July  | World Inc    | 125000 |

# **QUESTION B**

The following table shows the distribution of the major subjects taken by students of various ethnic grc aim of this table is to analyse the popularity of some of the majors.

| sl.no | Gender | Age | Ethnicity        | Planned major             | Category                |
|-------|--------|-----|------------------|---------------------------|-------------------------|
| 1     | male   | 18  | white            | business                  | business                |
| 2     | male   | 18  | white            | electrical engineering    | engineering             |
| 3     | male   | 19  | white            | biology                   | natural science         |
| 4     | male   | 18  | white            | maths                     | math                    |
| 5     | male   | 19  | white            | computer science          | computer science        |
| 6     | male   | 19  | white            | computer science          | computer science        |
| 7     | male   | 20  | white            | graphic design            | fine and performing art |
| 8     | male   | 19  | hispanic         | secondary education       | education               |
| 9     | male   | 20  | african-american | business                  | business                |
| 10    | male   | 19  | african-american | political science         | social science          |
| 11    | female | 22  | white            | business                  | business                |
| 12    | female | 19  | white            | french                    | humanities              |
| 13    | female | 18  | white            | anthropology              | social science          |
| 14    | female | 19  | white            | english                   | humanities              |
| 15    | female | 20  | white            | elementary education      | education               |
| 16    | female | 21  | white            | computer science          | computer science        |
| 17    | female | 19  | african-american | secondary education       | education               |
| 18    | female | 21  | asian            | early childhood education | education               |

| 19 female | 19 hispanic         | english           | humanities              |
|-----------|---------------------|-------------------|-------------------------|
| 20 female | 22 african-american | political science | social science          |
| 21 male   | 19 white            | theatre           | fine and performing art |
| 22 male   | 19 hispanic         | communications    | humanities              |

## Using Advanced Filters obtain the following filtered records:

a.Create a criteria range that displays the details of "african-american" ethnic groups who have majored b.Create a criteria range that displays the details of all "whites" who are majoring in either "business" c c.Create a criteria range that displays the details off all "male " "whites" who are studying under the cat d.Create a criteria range that displays the details of all students above 18 who are majoring in " graphic e.Create a criteria range that displays the details of all students of all students who are between 20 and f.Create a criteria range that displays the details of all "females" majoring in either "english" or "theatre

#### Answer a

| sl.no | Gender   | Age | Ethnicity        | Planned major     | Category       |
|-------|----------|-----|------------------|-------------------|----------------|
| 1     | 0 male   | 19  | african-american | political science | social science |
| 2     | 0 female | 22  | african-american | political science | social science |

#### Answer b

| sl.no | Gender | Age | Ethnicity | Planned major    | Category         |
|-------|--------|-----|-----------|------------------|------------------|
| 1     | male   | 18  | white     | business         | business         |
| 5     | male   | 19  | white     | computer science | computer science |
| 6     | male   | 19  | white     | computer science | computer science |
| 11    | female | 22  | white     | business         | business         |
| 16    | female | 21  | white     | computer science | computer science |

## Answer c

| sl.no | Gender | Age | Ethnicity        | Planned major             | Category                |
|-------|--------|-----|------------------|---------------------------|-------------------------|
| 1     | male   | 18  | white            | business                  | business                |
| 2     | male   | 18  | white            | electrical engineering    | engineering             |
| 3     | male   | 19  | white            | biology                   | natural science         |
| 4     | male   | 18  | white            | maths                     | math                    |
| 5     | male   | 19  | white            | computer science          | computer science        |
| 6     | male   | 19  | white            | computer science          | computer science        |
| 7     | male   | 20  | white            | graphic design            | fine and performing art |
| 8     | male   | 19  | hispanic         | secondary education       | education               |
| 9     | male   | 20  | african-american | business                  | business                |
| 10    | male   | 19  | african-american | political science         | social science          |
| 11    | female | 22  | white            | business                  | business                |
| 12    | female | 19  | white            | french                    | humanities              |
| 13    | female | 18  | white            | anthropology              | social science          |
| 14    | female | 19  | white            | english                   | humanities              |
| 15    | female | 20  | white            | elementary education      | education               |
| 16    | female | 21  | white            | computer science          | computer science        |
| 17    | female | 19  | african-american | secondary education       | education               |
| 18    | female | 21  | asian            | early childhood education | education               |
| 19    | female | 19  | hispanic         | english                   | humanities              |
| 20    | female | 22  | african-american | political science         | social science          |
| 21 male | 19 white    | theatre        | fine and performing art |
|---------|-------------|----------------|-------------------------|
| 22 male | 19 hispanic | communications | humanities              |

#### Answer d

| sl.no | Gender | Age | Ethnicity | Planned major    | Category                |
|-------|--------|-----|-----------|------------------|-------------------------|
| 5     | male   | 19  | white     | computer science | computer science        |
| 6     | male   | 19  | white     | computer science | computer science        |
| 7     | male   | 20  | white     | graphic design   | fine and performing art |
| 16    | female | 21  | white     | computer science | computer science        |

#### Answer e

| sl.no | Gender | Age | Ethnicity        | Planned major             | Category                |
|-------|--------|-----|------------------|---------------------------|-------------------------|
| 7     | male   | 20  | white            | graphic design            | fine and performing art |
| ç     | male   | 20  | african-american | business                  | business                |
| 11    | female | 22  | white            | business                  | business                |
| 15    | female | 20  | white            | elementary education      | education               |
| 16    | female | 21  | white            | computer science          | computer science        |
| 18    | female | 21  | asian            | early childhood education | education               |
| 20    | female | 22  | african-american | political science         | social science          |

#### Answer f

| sl.no | Gender    | Age | Ethnicity | Planned major | Category   |
|-------|-----------|-----|-----------|---------------|------------|
|       | 14 female | 19  | white     | english       | humanities |
|       | 19 female | 19  | hispanic  | english       | humanities |

Total gross salary of all the employess in HR only Total gross salary of managers only No. of people in sales only No.of people with the rating above 12.

#### Use Auto Filters to get the following results(Paste the results in a dif

a.The details of Wilson

b.The details of Lorenzo for May

c.The details of Benedict and Horwitz for the month of June and July d.The details of clients whose sales is in the range of 50,000 to 1,50,

e.Accounts of Rosebud Corp and Gen Corp

f.Accounts of Lorenzo and Horwitz where the sales amount is greater

oups.The main

education

| College           | sl.no | Gender | Age | Ethnicity | Planned I | Catego |
|-------------------|-------|--------|-----|-----------|-----------|--------|
| business          |       | female |     |           | english   |        |
| engineering       |       |        | -   |           | theatre   |        |
| arts and sciences |       |        |     |           |           | •      |
| arts and sciences |       |        |     |           |           |        |
| arts and sciences |       |        |     |           |           |        |
| arts and sciences |       |        |     |           |           |        |
| arts and sciences |       |        |     |           |           |        |
| education         |       |        |     |           |           |        |
| business          |       |        |     |           |           |        |
| arts and sciences |       |        |     |           |           |        |
| business          |       |        |     |           |           |        |
| arts and sciences |       |        |     |           |           |        |
| arts and sciences |       |        |     |           |           |        |
| arts and sciences |       |        |     |           |           |        |
| education         |       |        |     |           |           |        |
| arts and sciences |       |        |     |           |           |        |
| education         |       |        |     |           |           |        |

| arts : | and | sciences |
|--------|-----|----------|
| arts : | and | sciences |
| arts : | and | sciences |
| arts : | and | sciences |

d in " political science". »r "computer science" tegory of "fine and performing arts" » design"or are majoring in "computer science" 22 years old e"

| College           |
|-------------------|
| arts and sciences |
| arts and sciences |

| College           |
|-------------------|
| business          |
| arts and sciences |
| arts and sciences |
| business          |
| arts and sciences |

| College           |
|-------------------|
| business          |
| engineering       |
| arts and sciences |
| education         |
| business          |
| arts and sciences |
| business          |
| arts and sciences |
| arts and sciences |
| arts and sciences |
| education         |
| arts and sciences |
| education         |
| education         |
| arts and sciences |
| arts and sciences |

arts and sciences arts and sciences

College arts and sciences arts and sciences arts and sciences arts and sciences

College arts and sciences business business education arts and sciences education arts and sciences

College arts and sciences arts and sciences

# ferent location)

000

<sup>.</sup> than 50,000.

College

#### Question B Using SUMIF,evaluate the following:

| InvoiceNum                     | Office     | Amount     | DateDue | Today | Difference |
|--------------------------------|------------|------------|---------|-------|------------|
| AG-0145                        | Oregon     | \$5,000.00 | 2-Apr   | 6-May | -34        |
| AG-0189                        | California | \$450.00   | 20-Apr  | 6-May | -16        |
| AG-0220                        | Washington | \$3,211.56 | 29-Apr  | 6-May | -7         |
| AG-0310                        | Oregon     | \$250.00   | 1-May   | 6-May | -5         |
| AG-0355                        | Washington | \$125.50   | 5-May   | 6-May | -1         |
| AG-0409                        | Washington | \$3,000.00 | 11-May  | 6-May | 5          |
| AG-0581                        | Oregon     | \$2,100.00 | 24-May  | 6-May | 18         |
| AG-0600                        | Oregon     | \$335.39   | 24-May  | 6-May | 18         |
| AG-0602                        | Washington | \$65.00    | 29-May  | 6-May | 23         |
| AG-0633                        | California | \$250.00   | 31-May  | 6-May | 25         |
| TOTAL                          |            |            |         |       | _          |
| Total no of days past due days |            | -63        |         |       |            |
| Total amount past due days     |            | 9037.06    |         |       |            |

| Total amount for Oregon only           | \$7,685.39 |
|--|------------|
| Total amount for all except Oregon     | 7102.06    |
| Total amount with due date beyond Apri | 6125.89    |

# Rename Sheet 5 as "Multiple" and derive solutions for the following queries: QUESTION A EMPLOYEE SALARY STATEMENT

Consider the following salary statement of ABC LTD.,

current date

# CURRENT DATE=31ST DECEMBER 1999

| Name               | Annual Salary | Monthly Salary | Location   | Date Hired |
|--------------------|---------------|----------------|------------|------------|
| James Brackman     | \$42,400      |                | New York   | 03/01/98   |
| Michael Prenthal   | \$20,900      |                | New York   | 04/16/97   |
| Francis Jenikins   | \$67,700      |                | Arizona    | 11/12/98   |
| Peter Yates        | \$19,950      |                | Arizona    | 04/05/99   |
| Walter Franklin    | \$43,000      |                | Arizona    | 03/28/99   |
| Louise Victor      | \$48,500      |                | Conneticut | 07/05/97   |
| Sally Rice         | \$24,500      |                | New York   | 06/16/97   |
| Charles K. Barkley | \$52,000      |                | Conneticut | 09/09/98   |
| Melinda Hindquest  | \$102,000     |                | New York   | 06/04/97   |
| Linda Harper       | \$24,000      |                | Arizona    | 02/16/99   |

#### 1.Calculate the MONTHLY SALARY for each employee as MONTHLY SALARY=ANNUAL SALARY/12

2.Format the Table so as to represent all employees from the similar locations accord

| LOCATION   | FORMAT                  |
|------------|-------------------------|
| New York   | Bold Italic,Dark red    |
| Arizona    | Bold Italic, Dark Green |
| Conneticut | Bold Italic, Dark blue  |

3. Calculate the WORK EXPERIENCE of each employee as

#### WORK EXPERIENCE=CURRENT DATE-DATE HIRED

NOTE: FORMAT THE EXPERIENCE COLUMN TO DISPLAY AS NUMBER WITH A SING 4.Assign a category to each employee on the following rule:

- a. IF Experience is less than or equal to 2 years, than category="JU
- b. iF Experience is greater than 2 years, than category="SENIOR"

#### 4. Calculate the Income Tax for each employee as follows

- a. if the ANNUAL SALARY IS LESS THAN OR EQUAL TO \$50,000, TH
- b. if the ANNUAL SALARY IS BETWEEN \$50,000 TO \$ 80,000, THEN
- c. if the ANNUAL SALARY IS GREATER THAN OR EQUAL TO \$80,00

### **QUESTION B**

1.Calculate the Total Annual Salary Location-wise and the Maximu Performance Ratii

2.Consider the following Table.Return the missing details in this report by referring to

| Name        | Michael Prentha | Louise Victor | Mathews    | Melinda Hin |
|-------------|-----------------|---------------|------------|-------------|
| Department  | Production      | Sales         | Production | Sales       |
| Designation | Executive       | Manager       | Sr Manager | CEO         |
| Location    | ???             | ???           | ???        | ???         |

### **QUESTION C**

|        |                   |     | Height   | Weight   |               |
|--------|-------------------|-----|----------|----------|---------------|
| SI. No | Name              | Age | (in cms) | (in kgs) | Qualificatior |
| 1.     | Ravi B. S         |     | 21       | 157      | 55 GR         |
| 2.     | Shanker           |     | 19       | 161      | 60 PGR        |
| 3.     | Arun Kumar        |     | 20       | 163      | 59 P.U.C      |
| 4.     | Praveen Sharma    |     | 22       | 161      | 62 PGR        |
| 5.     | Ahmed R.          |     | 23       | 165      | 62 GR         |
| 6.     | Sebastian D'Souza |     | 20       | 170      | 63 P.U.C      |
| 7.     | Gautam Kapoor     |     | 22       | 162      | 64 GR         |
| 8.     | Kiran Patil       |     | 23       | 163      | 63 PGR        |
| 9.     | Mahesh Gupta      |     | 25       | 164      | 62 GR         |
| 10.    | Dinesh Kumar      |     | 22       | 165      | 61 P.U.C      |

The above is a database of applicants for recruitment in the Defense Forces. The Selection proc

- Test 1 : The candidate's age should be 21 or above.
- Test 2 : The candidate's age should be 21 or above and his height should be above 161 cms.
- Test 3 : The candidate's age should be 21 or above, his height should be above 161 cms and I
- Test 4 : The candidate's age should be 21 or above, his height should be above 161 cms , his v

#### a.You are to do the following :

- Ø Enter the given data into an Excel Spreadsheet.
- Ø Create a Column for each test. Enter the IF Function so as to display a YES fc
- Ø Copy the formulae for all the candidates.

#### 08/19/2005 12/31/1999

| Exempt | Performance<br>Rating | Experience | Category | RANK | Income Tax |
|--------|-----------------------|------------|----------|------|------------|
| FALSE  | 1                     | 7          | 1        |      |            |
| FALSE  |                       | 6          | 2        |      |            |
| TRUE   | 3                     | 3          | 1        |      |            |
| FALSE  | 9                     | 9          | 0        |      |            |
| FALSE  | 8                     | 3          | 0        |      |            |
| FALSE  | e e e                 | 5          | 2        |      |            |
| FALSE  | 6                     | 6          | 2        |      |            |
| FALSE  | 7                     | 7          | 1        |      |            |
| TRUE   | Ę                     | 5          | 2        |      |            |
| FALSE  | 8                     | 3          | 0        |      |            |

ding to the following colour combinations

#### **ILE DECIMAL POINT.**

NIOR"

#### 1EN INCOME TAX IS ZERO INCOME TAX IS 20% OF ANNUAL SALARY 10, THEN INCOME TAX=30% OF ANNUAL SALARY

ng Location-wise

# o the Master table (USE VLOOKUP/HLLOKUP)

| Linda Harper |
|--------------|
| Production   |
| Executive    |
| ???          |

| Test 1 | Test2 | Test3 | Test4 |
|--------|-------|-------|-------|
| у      |       | n     | n     |
| n      |       | n     | n     |
| n      |       | n     | n     |
| У      |       | n     | n     |
| у      |       | У     | У     |
| n      |       | n     | n     |
| У      |       | У     | У     |
| У      |       | У     | У     |
| У      |       | У     | У     |
| У      |       | У     | n     |

cess consists of four eligibility tests for which criteria is given.

3

his weight should 60 kgs or above.

*w*eight should 60 kgs or above and he should be either a Graduate (GR) or a PostGraduate (PGR).

or the eligible candidates and a NO for the candidates who are not eligible.

# Insert a new sheet and Rename this Sheet as "Logic Practice-1" and derive solutions for the solution of the so

On the basis of the pricing fixed below, arrive at the sales price for each of the gallo Olive Oil Logic - 1

| Cost/gallon for the first 500 gallons: | \$23 | I.    |
|--|------|-------|
| Cost/gallon for gallons above 500:     | \$20 |       |
| Number of gallons:                     |      |       |
| 10                                     | 23   | 230   |
| 483                                    | 23   | 11109 |
| 500                                    | 20   | 10000 |
| 1600                                   | 20   | 32000 |

ne following query:

n sales made below:



Logic Used for the Olive Oil Problem in the Proficiency Exercises

#### Insert a new sheet and Rename this Sheet as "Grade evaluation" and derive solutions for the following c

Consider the following table where the marks scored by the students have been listed below: On the basis of the scores, obtained assign the grades to each of the students.

| Student Name | Score | Grade   |
|--------------|-------|---------|
| Deepak       | 45    | Err:508 |
| Inderjit     | 90    |         |
| Arun         | 78    |         |
| Tarun        | 52    |         |
| George       | 63    |         |
| Nirmala      | 68    |         |
| Rajan        | 69    |         |
| Naseer       | 64    |         |
| Arjun        | 52    |         |
| Saji         | 31    |         |
| Kapil        | 35    |         |
| Rahul        | 63    |         |
| Saket        | 68    |         |
| Sanjay       | 66    |         |
| Geetha       | 100   |         |
| Raghav       | 58    |         |

| score | grade |
|-------|-------|
| <=35  | d     |
| 35-60 | С     |
| 60-85 | b     |
| >=85  | а     |

<mark>վuery</mark>:

# Insert a new sheet and Rename this Sheet as "Logic Practice-2" and derive solutions for the

On the basis of the pricing fixed below, arrive at the sales price for each of the gallon

| Olive Oil Logic - 2   |              |                 |
|---|--------------|-----------------|
| Cost/gallon for the first 500 gallons:<br>Cost/gallon for the next 500 gallons: | \$23<br>\$20 |                 |
| Cost/gallon for gallons >1,000:   | \$15         | Logic<br>Proble |
| Number of gallons:  |              | 11001           |
| 1,600   | 30500        |                 |
| 483   | 11109        |                 |
| 2001  | 36515        |                 |

following query:

sales made below:

Used for the Olive Oil em in the Proficiency Exercises

| Data | d | ummy  | One instance of each value | Data | Data |   |
|------|---|-------|----------------------------|------|------|---|
|      | 1 | FALSE | Unique values              |      | 1    | 1 |
|      | 1 | FALSE |                            |      | 2    | 2 |
|      | 1 | TRUE  |                            |      | 3    | 3 |
|      | 2 | TRUE  |                            |      | 4    | 4 |
|      | 3 | TRUE  |                            |      | 5    | 5 |
|      | 4 | FALSE |                            |      | 6    | 6 |
|      | 4 | FALSE |                            |      | 7    | 7 |
|      | 5 | FALSE |                            |      | 8    | 8 |
|      | 6 | FALSE |                            |      |      |   |
|      | 7 | FALSE |                            |      |      |   |

7 8 FALSE

# Data

1

# **Benefit Calculations**

| Name    | Employm<br>t. Status | Health<br>Plan | Salary    | Hire<br>Date | # Years<br>Employe<br>d | Retireme<br>nt<br>Contribu<br>tion | Health<br>Plan Cost |
|---------|----------------------|----------------|-----------|--------------|-------------------------|------------------------------------|---------------------|
| Gopnik  | part time            | family         | \$45,000  | Jan-98       | 5                       |                                    | 10000               |
| Mahfouz | full time            | family         | \$120,000 | May-89       | 13                      |                                    | 10000               |
| Bryson  | full time            | individual     | \$145,000 | Mar-01       | 2                       |                                    | 8000                |
| Peters  | full time            | individual     | \$100,000 | Nov-00       | 2                       |                                    | 8000                |
| deVries | full time            | individual     | \$115,000 | Jul-97       | 5                       |                                    | 8000                |
| Talento | part time            | family         | \$55,000  | Aug-95       | 7                       |                                    | 10000               |
| Yang    | full time            | other plan     | \$95,000  | Apr-99       | 4                       |                                    | 0                   |
| Marks   | part time            | family         | \$15,000  | May-01       | 1                       |                                    | 10000               |
| Heller  | full time            | family         | \$124,000 | Oct-00       | 2                       |                                    | 10000               |

Write formulas to calculate the Retirement Contribution and Health Plan Cost for each employee.

# The Retirement Contribution Calculation Instructions

The company contributes to each eligible employee's retirement plan at the rate of 4% of the employee's annual salary. However, to be eligible for this benefit, an employee must have full-time status with two or more years of employment. A calculation for the retirement contribution requires a test of two conditions: Full- or part-time status and number of years of employment.

# The Health Plan Cost Calculation Instructions

The company supplies two health plan options:

 $\cdot$  Up to \$10K of annual coverage for employees who choose the family plan.

• Up to \$8K of annual coverage for employees who choose the individual plan. These benefits do not apply if the employee or employee-and-family are already covered by some other health plan. A calculation for health insurance requires a test of three conditions: Individual, Family, Already Covered.

#### Rename Sheet 6 as "Database Functions" and derive solutions for the following queries:

The following illustration shows a database for a small orchard. Each record contains information about (

| Tree   | Height | Age | Yield | Profit |
|--------|--------|-----|-------|--------|
| Apple  | 18     | 20  | 14    | 105    |
| Pear   | 12     | 12  | 10    | 96     |
| Cherry | 13     | 14  | 9     | 105    |
| Apple  | 14     | 15  | 10    | 75     |
| Pear   | 9      | 8   | 8     | 76.8   |
| Apple  | 8      | 9   | 6     | 45     |



#### Using the Appropriate function return the following details

1. Furnish details of the number of apple trees whose height ranges between 10 and 16 units.

- 2. calculate the highest profit between apple and pear trees
- 3. Calculate the least profit of those apple trees over 10 years old
- 4. Calculate the Total Profit from Apple Trees
- 5. Calculate the Total Profit from apple trees with a height between 10 and 16 units
- 6. Calculate the product of the yields from apple trees aged above 10 years
- 7. Calculate the average yield of all apple trees over 10 feet in height.

| 1 | Err:504 |
|---|---------|
| 2 | 105     |
| 3 | 75      |
| 4 | 225     |
| 5 | 75      |
| 6 | 140     |
| 7 | 12      |

| Tree  | Height | Age | Yield | Profit |
|-------|--------|-----|-------|--------|
| Apple |        | >10 |       |        |

one tree.

| Profit    |        |
|-----------|--------|
| Profit    | ]      |
| Profit    | Height |
|           | <16    |
|           |        |
| 1<br>105  |        |
| 75        |        |
| 225<br>75 |        |
| 140       |        |

12

### Rename Sheet 7 as "Consolidate" and derive solutions for the following queries:

The following are reports for 1992 and 1993 sales for the Eastern and Western regions of a tour col

| Eastern 1992 |        |       |       |       |  |
|--------------|--------|-------|-------|-------|--|
|              | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 |  |
| Golf         | 5,000  | 2,000 | 1,500 | 2,000 |  |
| Safari       | 9,000  | 6,000 | 4,000 | 5,000 |  |
| Tennis       | 1,500  | 500   | 600   | 1,500 |  |
| Total Sale   | 15,500 | 8,500 | 6,100 | 8,500 |  |

| Western 1992 |        |        |        |        |
|--------------|--------|--------|--------|--------|
|              | Qtr 1  | Qtr 2  | Qtr 3  | Qtr 4  |
| Windsurfi    | 1,800  | 5,000  | 6,500  | 1,750  |
| Golf         | 3,500  | 2,500  | 6,430  | 4,590  |
| Tennis       | 6,000  | 3,200  | 4,070  | 5,000  |
| Total Sale   | 11,300 | 10,700 | 17,000 | 11,340 |

| Eastern 1993 |        |       |       |       |
|--------------|--------|-------|-------|-------|
|              | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 |
| Golf         | 5,500  | 1,500 | 1,400 | 2,500 |
| Safari       | 10,000 | 6,500 | 4,400 | 4,500 |
| Tennis       | 1,000  | 800   | 550   | 1,000 |
| Total Sale   | 16,500 | 8,800 | 6,350 | 8,000 |

| Western 1993 |       |       |        |       |
|--------------|-------|-------|--------|-------|
|              | Qtr 1 | Qtr 2 | Qtr 3  | Qtr 4 |
| Windsurfi    | 1,850 | 4,000 | 5,500  | 1,550 |
| Golf         | 1,500 | 2,500 | 4,075  | 2,500 |
| Tennis       | 6,500 | 2,000 | 4,590  | 5,055 |
| Total Sale   | 9,850 | 8,500 | 14,165 | 9,105 |

Use the Consolidate to obtain a total of the above data.

Link the Consolidated data to the source data such that if a change is made in the source

mpany.

e data this is reflected in the report.

# **Advanced Fitlers solutions**

| sl.no | Gender | Age  | Ethnicity        | Planned major     | Category          |
|-------|--------|------|------------------|-------------------|-------------------|
|       |        |      | african-american | political science |                   |
|       |        | _    |                  |                   |                   |
| sl.no | Gender | Age  | Ethnicity        | Planned major     | Category          |
|       |        |      | white            | business          |                   |
|       |        |      | white            | computer science  |                   |
|       |        |      |                  |                   |                   |
| sl.no | Gender | Age  | Ethnicity        | Planned major     | Category          |
|       | male   |      |                  | white             | fine and performi |
|       |        | _    |                  |                   |                   |
| sl.no | Gender | Age  | Ethnicity        | Planned major     | Category          |
|       |        | >18  |                  | computer science  |                   |
|       |        | >18  |                  | graphic design    |                   |
|       |        |      |                  |                   |                   |
| sl.no | Gender | Age  | Ethnicity        | Planned major     | Category          |
|       |        | >=20 |                  |                   |                   |

| sl.no | Gender | Age | Ethnicity | Planned major | Category |
|-------|--------|-----|-----------|---------------|----------|
| -     | female |     |           | english       |          |
|       | female |     |           | theatre       |          |

### Pivot table Question A Solution

| page<br>1 <mark>Ethnic groups</mark> | row<br>Planned majors<br>Gender       |
|--------------------------------------|---------------------------------------|
| 2 <mark>Gender</mark>                | Planned majors<br>Ethnicity<br>Age    |
| 3 <mark>College</mark>               | Gender<br>Planned majors<br>Ethnicity |
| 4 College                            | Ethnicity                             |
| 5 College                            | Category                              |

### Question c

| 1 Desgn | Dept       |
|---------|------------|
| 2       | Dept       |
| 3 Desgn | Dept,emp   |
| 4       | Dept,Desgn |
| 5 Dept  | Desgn      |

| College                  |
|--------------------------|
| College                  |
|                          |
| College<br>ng art        |
| College                  |
|                          |
| College <mark>Age</mark> |
| <=22                     |
|                          |
|                          |

col data Count of sl no

College

count of sl no

Count of sl no

Max age

max age

Max annd min Gross sala

Max rating

Average Gross

Min Rating

Count of SI no

Rename Sheet 9 as "Pivot Table" and derive solutions for the following queries:

### **QUESTION A**

The following table shows the distribution of the major subjects taken by students of various aim of this table is to analyse the popularity of some of the majors.

| sl.no | Gender | Age | Ethnicity  | Planned r    | Category    | College           |
|-------|--------|-----|------------|--------------|-------------|-------------------|
| 1     | male   | 18  | white      | business     | business    | business          |
| 2     | male   | 18  | white      | electrical e | engineerir  | engineering       |
| 3     | male   | 19  | white      | biology      | natural sci | arts and sciences |
| 4     | male   | 18  | white      | maths        | math        | arts and sciences |
| 5     | male   | 19  | white      | computer     | computer    | arts and sciences |
| 6     | male   | 19  | white      | computer     | computer    | arts and sciences |
| 7     | male   | 20  | white      | graphic de   | fine and p  | arts and sciences |
| 8     | male   | 19  | hispanic   | secondary    | education   | education         |
| 9     | male   | 20  | african-am | business     | business    | business          |
| 10    | male   | 19  | african-am | political so | social scie | arts and sciences |
| 11    | female | 22  | white      | business     | business    | business          |
| 12    | female | 19  | white      | french       | humanitie   | arts and sciences |
| 13    | female | 18  | white      | anthropole   | social scie | arts and sciences |
| 14    | female | 19  | white      | english      | humanitie   | arts and sciences |
| 15    | female | 20  | white      | elementar    | education   | education         |
| 16    | female | 21  | white      | computer     | computer    | arts and sciences |
| 17    | female | 19  | african-am | secondary    | education   | education         |
| 18    | female | 21  | asian      | early child  | education   | education         |
| 19    | female | 19  | hispanic   | english      | humanitie   | arts and sciences |
| 20    | female | 22  | african-am | political se | social scie | arts and sciences |
| 21    | male   | 19  | white      | theatre      | fine and p  | arts and sciences |
| 22    | male   | 19  | hispanic   | communic     | humanitie   | arts and sciences |

1.Generate a Pivot Table report for each of the following

a.Display which majors are most popular with men and women of different ethnic groups. b.Display which majors are most popular with various ethnic groups, of different age groups, c.Display which majors are most popular with men or women of different ethnic groups for ea d.Display the maximum age group of students belonging to different ethnic groups from each e.Display the maximum age group of students belonging to different categories from each co

### **QUESTION B**

The Following data Represents the monthly expenses incurred by you.Consolidate the same in the *Column Field* of the report)

|       | Rent | Ec bill | Water bill | Provisionsca | ble self |      |
|-------|------|---------|------------|--------------|----------|------|
| jan   | 5000 | 1000    | 250        | 3500         | 180      | 2500 |
| feb   | 5000 | 700     | 200        | 2750         | 180      | 2500 |
| march | 5000 | 850     | 150        | 3000         | 180      | 2500 |
| april | 5000 | 650     | 260        | 2900         | 180      | 2500 |
| may   |      |         |            | 1000         |          | 2000 |

|          | Rent   | Ec bill | Water bill | Provisionscabl | e self |      |
|----------|--------|---------|------------|----------------|--------|------|
| may      | 5000   | 1000    | 250        | 2500           | 180    | 2500 |
| june     | 5000   | 700     | 200        | 2750           | 180    | 2500 |
| july     | 5000   | 850     | 150        | 3000           |        | 2500 |
| august   | 5000   | 650     | 260        | 2900           | 180    | 2500 |
| septembe | r 5000 | 700     | 260        | 3000           | 180    | 2500 |
| october  | 5000   | 780     | 250        | 2800           | 180    | 2500 |
| november | 5000   | 790     | 243        | 3500           | 180    | 2500 |
| december | 5000   | 800     | 285        | 3200           | 180    | 2500 |
| august   |        |         |            |                | 180    | 1500 |

# **QUESTION C**

| slno | empname      | dept   | desgn     | basic | hra    | gross  | rating |
|------|--------------|--------|-----------|-------|--------|--------|--------|
|      | 1 shanthi    | hr     | mgr       | 2563  | 1281.5 | 3844.5 | 5      |
|      | 2 aishwarya  | hr     | executive | 4000  | 2000   | 6000   | 6      |
|      | 3 sandeep    | sales  | sr mgr    | 4000  | 2000   | 6000   | 4      |
|      | 4 simran     | prod   | executive | 4000  | 2000   | 6000   | 8      |
|      | 5 veer       | hr     | mgr       | 3652  | 1826   | 5478   | 7      |
|      | 6 sachin     | sales  | sr mgr    | 4000  | 2000   | 6000   | 9      |
|      | 7 bin laden  | prod   | mgr       | 2589  | 1294.5 | 3883.5 | 6      |
|      | 8 ambani     | hr     | sr mgr    | 4000  | 2000   | 6000   | 8      |
|      | 11 brinda    | prod   | sr mgr    | 4000  | 2000   | 6000   | 4      |
|      | 12 deepak    | prod   | mgr       | 2365  | 1182.5 | 3547.5 | 5      |
|      | 13 vishnu    | Qc     | executive | 2500  | 1250   | 3750   | 9      |
|      | 14 anand     | stores | executive | 2580  | 1290   | 3870   | 6      |
|      | 15 lokesh    | prod   | executive | 2365  | 1182.5 | 3547.5 | 8      |
|      | 16 vijaya    | Qc     | sr mgr    | 4000  | 2000   | 6000   | 4      |
|      | 17 sreevidya | stores | mgr       | 3000  | 1500   | 4500   | 5      |
|      | 18 jasim     | Qc     | mgr       | 3000  | 1500   | 4500   | 8      |
|      | 19 venu      | hr     | sr mgr    | 4000  | 2000   | 6000   | 3      |

1. Maximum and Minimum Gross Salary for each Desgn,Dept-wise

2. Maximum Rating Department-wise

3. Average Gross Salary for each Designation,dept-wise,employee-wise

4. Least rating Department-wise, Desgn-wise

5.Number of people in each dept,desgn-wise

ethnic groups.The main

I

I

,` for each gender group(male/female) ach college. n college. illege.

into a single report using Pivot Tables(Do not keep any data

1 1

# Rename Sheet 12 as "Charts" and derive solutions for the following queries: INCOME COMPARISON

Being the senior accounts executive of your company, it is your reposnsibility to make the year-e statements ready. This year there is an additional responsibility given to you. You have been asked to prepare the income statement, showing the revenue, sales and operating expenses for the previous three years. Such a statement will show t figures for the three years , so that a realist projection can be made for the current year

The Format for the statement is as follows

| REVENUE                      | 2000    | 2001     | 2002    |
|------------------------------|---------|----------|---------|
| Gross Sales                  | 70000   | 75000    | 90000   |
| Sales Returns                | 20000   | 23000    | 28000   |
| NET SALES                    | 50000   | 52000    | 62000   |
|                              |         |          |         |
| COST OF SALES                | 2000    | 2001     | 2002    |
| Beginning Inventory          | 35000   | 36000    | 42000   |
| Goods Purchased              | 12000   | 16500    | 18500   |
| Total Goods Available        | 47000   | 52500    | 60500   |
| Ending Inventory             | 3600    | 4200     | 4350    |
| Total cost of Goods Consumed | 43400   | 48300    | 56150   |
| Gross Profit                 | 6600    | 3700     | 5850    |
|                              |         |          |         |
| OPERATING EXPENSES           | 2000    | 2001     | 2002    |
| Selling                      | 6200    | 7300     | 4600    |
| General/Administrative       | 4450    | 5275     | 6000    |
| Total Operating Expenses     | 10650   | 12575    | 10600   |
| Income before Taxes          | -4050   | -8875    | -4750   |
| Taxes on Income              | -1822.5 | -3993.75 | -2137.5 |
| Net Profit                   | -2227.5 | -4881.25 | -2612.5 |

# ABC LIMITED For the period 2000-2002(Rs. In Lakhs)

You are required to do the following

### **QUESTION A**

1.Calculate NET SALES using the formula: NET SALES=GROSS SALES-SALES RETURN

2.Calculate TOTAL GOODS AVAILABLE by adding Beginning Inventory and Goods Purchased 3.Calculate TOTAL COST OF GOODS SOLD, using the formula:

TOTAL COST OF GOODS CONSUMED=TOTAL GOODS AVAILA

4.Calculate GROSS PROFIT as:

NET SALES -TOTAL COST OF GOODS CONSUMED

5.Calculate Total Operating Expenses by adding Selling and General/Administrative Expenses. 6.Calculate Income before Taxes as:

**GROSS PROFIT-TOTAL OPERATING EXPENSES** 

7.Calculate Taxes on Income as a percentage(45%) of Income before Taxes

8.Calculate NET PROFIT AFTER TAX by subtracting TAXES ON INCOME from INCOME BEFORE

### **QUESTION B**

NOTE: Place the charts as an object in the same sheet where the solution to this question exists

1.Create a Line chart to depict the Selling and General/administrative expenses for the three 2.Create a Column chart to depict NET PROFIT VS GROSS PROFIT for the three years

3.Create a Pie chart to depict the NET PROFIT VS GROSS PROFIT for the year 2002

ending

he comparitive

# **BLE-ENDING INVENTORY**

ΤΑΧ
years

Practice:

1. Create a Macro for Conditional Formatting on the basis of the following conditions

IF the cell value is negative then apply a red colour shading to your cell iF the cell value is positive then apply a blue colour shading to your cell IF the cell value is Zero then apply a Green colour shading to your cell.

2. Create the following function macro and run the macro on the following table

Insert a new column called Income tax at the end of the table.Create a user defined Total<=10000,income tax=0

Total between 10000 to 30000,income tax=10% of total sal Total >=30000, income tax=20% of total sal

| slno | empname   | age | dept   | desgn     | basic | hra  | da   | gross |
|------|-----------|-----|--------|-----------|-------|------|------|-------|
| 1    | shanthi   | 25  | hr     | mgr       | 3000  | 1500 | 750  | 5250  |
| 2    | aishwarya | 26  | hr     | sr mgr    | 4000  | 2000 | 1000 | 7000  |
| 3    | sandeep   | 28  | sales  | sr mgr    | 4000  | 2000 | 1000 | 7000  |
| 4    | simran    | 26  | prod   | sr mgr    | 4000  | 2000 | 1000 | 7000  |
| 5    | veer      | 24  | hr     | mgr       | 3000  | 1500 | 750  | 5250  |
| 6    | sachin    | 29  | sales  | sr mgr    | 4000  | 2000 | 1000 | 7000  |
| 7    | bin laden | 26  | prod   | mgr       | 3000  | 1500 | 750  | 5250  |
| 8    | ambani    | 25  | hr     | sr mgr    | 4000  | 2000 | 1000 | 7000  |
| 9    | brinda    | 28  | prod   | sr mgr    | 4000  | 2000 | 1000 | 7000  |
| 10   | deepak    | 30  | prod   | mgr       | 3000  | 1500 | 750  | 5250  |
| 11   | anita     | 40  | Qc     | mgr       | 3000  | 1500 | 750  | 5250  |
| 12   | sebastian | 30  | Qc     | Executive | 2000  | 1000 | 500  | 3500  |
| 13   | leema     | 45  | Qc     | mgr       | 3000  | 1500 | 750  | 5250  |
| 14   | vincent   | 24  | Stores | mgr       | 3000  | 1500 | 750  | 5250  |
| 15   | shantha   | 20  | Stores | Executive | 2000  | 1000 | 500  | 3500  |
| 16   | david     | 45  | Qc     | sr mgr    | 4000  | 2000 | 1000 | 7000  |
| 17   | manu      | 30  | Qc     | Executive | 2000  | 1000 | 500  | 3500  |

function to calculate the income tax as

Income Tax