PL*SQL

Exercise 5

1. Create a table SCHOOL which has the following structure:-
   Roll _no   Number   4
   Name   Varchar2   20
   Section   Number   4
   Class   Character   7
   Oracle   Number   3
   Dev_2000   Number   3

   Fill in the following sample data:-

Roll no.	Name	Section	Class	Oracle	Dev_2000
1	Mukesh Khanna	9012	Working	55	80
2	Rajiv Chawala	9025	Student	75	85
3	Pramila Bordes	9025	Working	45	45
4	Nitish Bharadwaj	9025	Working	67	75
5	Anita Sood	9012	Student	86	72
6	Kalyani Deshmukh	9012	Working	55	65
7	Rakesh Surana	9025	Working	95	95
8	Alok Kumar Nath	9025	Working	25	40
9	Sushmita Bannerjee	9025	Student	73	83
10	Pranay Aiyyer	9012	Student	62	85
11	Shalini Patel	9012	Student	35	00
12	Ketan Tendulkar	9012	Working	83	98
13	Arun Trivedi	9012	Working	67	53
14	Victor D'souza	9025	Working	59	63
15	Sarah Ahmed	9025	Student	65	73

   Create another table with the following structure:-
   Roll_no   Number   4
   Total   Number   3
   Percent   Number   5,2
   Grade   Varchar2   10

Insert into this table the total marks, percentage and grades of the respective students. The rules for grades are as follows:-

For working persons
Percentage	Grade
< 50 %	FAIL
>= 50 %	PASS

For students
Percentage	Grade
< 40%	FAIL
40 - 49.99%	C
50 – 59.99%	B
60 – 79.99%	A
>= 80%	HONOURS

2. The CUSTOMER table of a state electricity board consists of the following fields:-

Meter Number	Varchar2	4
Meter Type	Character	1
Previous Reading	Number	5
Current Reading	Number	5
Customer Type	Character	1
Last Bill payment	Character	1 (values could be 'Y' or 'N')

There are two types of meters viz. 3- phase or 1-phase coded as 'T' or 'S' respectively. There are 4 types of customers viz. Agricultural Industrial, Commercial and Residential with coeds 'A' , 'I', 'C' and 'R' respectively.

Formulae:-
Units used = Current Reading – Previous Reading
Rate =Rs.1/ 1.25/ 1.50/ 1.30 for A/I/C/R respectively.
Amount = rate*units used
Surcharge = 5% for single phase
10% for 3 phase
Excise = 30% of (amount +Surcharge)
Net = Amount +Surcharge + Excise

Write a block to calculate the bill for each customer. The program should insert the Meter no., Units used, Rate, Amount, Surcharge, Excise duty and Net for each customer into some other suitable table. Also, at the end, it should insert the total Amount, Surcharge, Excise and Net into some other table.

3. A table consists of the following fields:-

Invoice Number	Varchar2	4
Invoice Date	Date	
Customer Code	Number	1
Product Code	Number	1
Quantity Sold	Number	3

There are ten customers with codes 0 to 9 and five products with codes 0 to 4. The rates of products are Rs. 15, 35, 42, 51 and 60 respectively. Write a program to find the total purchase in Rs. of each customer and total sale of each product using this table and insert these values in two other tables.

4. Create a table EMPLOYEE with the following columns:-

Employee No.	Varchar2	4
Employee Name	Varchar2	30
Designation	Varchar2	10
Category	Character	1
Basic Salary	Number	4

Category may be 'J', 'S', or 'W' for Jr. officers, Sr. officers or Worker category.

Formulae:-
DA = 35% of Basic Salary correct up to paise.
HRA = 15% of Basic Salary subject to a maximum of Rs. 250/1000/30000 for categories W/J/S respectively.
Gross = Basic Salary +DA +HRA

Output the Employee Number and the Gross for each employee in a separate table.