Practice Test 3

Nested query

Create table for Employee, Department and Salary_Grade as per below given details.

1. Emplpyee(Emp no - int, Emp name - string, Job – string , Salary - int , Dept no - int, Grade - int)
Primary key : Emp no,
Foreign Key : Dept no

2. Department(Department_Id - int , Department_Name - String, , Location -string)
Primary Key: Department_Id

3. Salary_Grade (Grade_id – Char, Lowest Salary – int, Highest Salary– int)
Primary Key: Grade

Questions:
1. Add foreign key to Employee(Grade) reference to Salary_Grade (Grade_id) using alter command.

   Ans : alter table Emp add foreign key(Grade) references GradeSalary(Gid);

2. insert data into all tables.

   insert into Dept values (10, 'Banking', 'Chennai');
   insert into Dept values (20, 'IT', 'Bangalore');
   insert into Dept values (30, 'Finance', 'Delhi');
   insert into Dept values (40, 'HR', 'Hydrabad');

   insert into GradeSalary values('a', 50000, 99999);
   insert into GradeSalary values('b', 100000, 149999);
   insert into GradeSalary values('c', 149999, 199999);
   insert into GradeSalary values('d', 200000, 250000);

   insert into Emp values(1, 'Alice', 'Manager', 150000, 20, 'c');
   insert into Emp values(2, 'Bob', 'Manager', 100000, 30, 'b');
   insert into Emp values(3, 'Cindy', 'Programmer', 200000, 20, 'd');
   insert into Emp values(4, 'Sam', 'Clerk', 50000, 10, 'a');
   insert into Emp values(5, 'Eric', 'Clerk', 50000, 30, 'a');

Query:

#1 List all department having atleat one employee.

#2 List all department having no employee.

#3 list all employee getting salary more than "Bob"

#4 list the employee names who do the same job as "Bob"

#5 list the name and salary of all employees whose salary is grater than all employee working in department 30

#6 list Lowsal of all employee where grade is same as that of "Bob'

#7 list department name of employee havng highest salary

#8 list average salary of employees in It department

#9 list the details of all employees and programemrs of IT department whose salary is >= 150000

#10 retrieve name and job of employyes in the IT department listed in the order of name

#11 List the name of employees having salary greater thatn the average of Lowsal and HighSal

#12 List employee count of banking department.

#13 List department name having number of employees greater than employees in Banking department