**LAB 8**

**PART A**

Construct relations for each of the following scenarios and insert suitable data:





1. Find the names of the instructors and secretaries.
2. Find the average salary of the instructors from each rank.
3. Find the number of students who have enquired for each program offered by each campus.

**PART B**

create table salesman

( salesman\_id int primary key,name varchar(50),city varchar(40),commission numeric (3,2));

insert into salesman values(5001,'James Hoog','New York',0.15)

insert into salesman values(5002,'Nail Knite','Paris',0.13)

insert into salesman values(5005,'Pit Alex','London',0.11)

insert into salesman values(5006,'Mc Lyon','Paris',0.14)

insert into salesman values(5003,'Lauson Hen',NULL,0.12)

insert into salesman values(5007,'Paul Adam','Rome',0.13)

select \* from salesman

create table customer1

(customer\_id int primary key,cust\_name varchar(80),city varchar(80),grade int,salesman\_id int references salesman);

insert into customer1 values(3002,'Nick Rimando','New York',100,5001)

insert into customer1 values(3005,'Graham Zusi','California',200,5002)

insert into customer1 values(3001,'Brad Guzan','London',NULL,5005)

insert into customer1 values(3004,'Fabian Johns','Paris',300,5006)

insert into customer1 values(3007,'Brad Davis','New York',200,5001)

insert into customer1 values(3009,'Geoff Camero','Berlin',100,5003)

insert into customer1 values(3008,'Julian Green','London',300,5002)

insert into customer1 values(3003,'Jozy Altidor','Moncow',200,5007)

select \* from customer1

create table orders1

(ord\_no int primary key,purch\_amt decimal,ord\_date date,customer\_id int references customer1,salesman\_id int references salesman);

insert into orders1 values(70001,150.5,'2012-10-05',3005,5002)

insert into orders1 values(70009,270.65,'2012-09-10',3001,5005)

insert into orders1 values (70002,65.26,'2012-10-05',3002,5001)

insert into orders1 values (70004,110.5,'2012-08-17',3009,5003)

insert into orders1 values (70007,948.5,'2012-09-10',3005,5002)

insert into orders1 values (70005,2400.6,'2012-07-27',3007,5001)

insert into orders1 values (70008,5760,'2012-09-10',3002,5001)

insert into orders1 values (70010,1983.43,'2012-10-10',3004,5006)

insert into orders1 values (70003,2480.4,'2012-10-10',3009,5003)

insert into orders1 values (70012,250.45,'2012-06-27',3008,5002)

insert into orders1 values (70011,75.29,'2012-08-17',3003,5007)

insert into orders1 values (70013,3045.6,'2012-04-25',3002,5001)

select \* from orders1

1. Write a SQL statement to know which salesman are working for which customer.
2. Write a SQL statement to find the list of customers who appointed a salesman for their jobs who gets a commission from the company is more than 12%.
3. Write a SQL statement to find the list of customers who appointed a salesman for their jobs who does not live in same city where there customer lives, and gets a commission is above 12%.
4. Write a SQL statement to find the details of a order i.e. order number, order date, amount of order, which customer gives the order and which salesman works for that customer and how much commission he gets for an order.
5. Write a SQL statement to make a list in ascending order for the customer who works either through a salesman or by own.
6. Write a SQL statement to make a list in ascending order for the customer who holds a grade less than 300 and works either through a salesman or by own.
7. Write a SQL statement to make a report with customer name, city, order number, order date and order amount in ascending order according to the order date to find that either any of the existing customer have placed no order or placed one or more orders.
8. Write a SQL statement to make a report with customer name, city, order number, order date, order amount salesman name and commission to find that either any of the existing customer have placed no order or placed one or more orders by their salesman or by own
9. Write a SQL statement to make a list in ascending order for the salesmen who works either for one or more customer or not yet join under any of the customer
10. Write a SQL statement to make a list for the salesmen who works either for one or more customer or not yet join under any of the customer who placed either one or more orders or no order to their supplier.
11. Write a SQL statement to make a list for the salesmen who either work for one or more customer or yet to join any of the customer. The customer, may have placed, either one or more orders on or above order amount 2000 and must have a grade, or he may not have placed any order to the associated supplier.
12. Write a SQL statement to make a report with customer name, city, order no. order date, purchase amount for those customers from the existing list who placed one or more orders or which order(s) have been placed by the customer who are not in the list
13. Write a SQL statement to make a report with customer name, city, order no. order date, purchase amount for only those customers in the list who must have a grade and placed one or more orders or which order(s) have been placed by the customer who are neither in the list not have a grade
14. Write a SQL statement to make a cartesian product between salesman and customer i.e. each salesman will appear for all customer and vice versa
15. Write a SQL statement to make a cartesian product between salesman and customer i.e. each salesman will appear for all customer and vice versa for those customer who belongs to a city.
16. Write a SQL statement to make a cartesian product between salesman and customer i.e. each salesman will appear for all customer and vice versa for those salesmen who belongs to a city and the customers who must have a grade
17. Write a SQL statement to make a cartesian product between salesman and customer i.e. each salesman will appear for all customer and vice versa for those salesmen who must belongs a city which is not the same as his customer and the customers should have a own grade.