

Assignment 2

DBMS LAB

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BATCH –A 1, 2

1. Create database and create table Salesman.

```
MariaDB [(none)]> create database Ashish;
Query OK, 1 row affected (0.00 sec)

MariaDB [(none)]> use Ashish;
Database changed
MariaDB [Ashish]> create table Salesman
-> (
-> id int,
-> name varchar(20),
-> city varchar(20),
-> commission float(11,2),
-> PRIMARY KEY (id)
-> );
Query OK, 0 rows affected (0.29 sec)
```

2. create table customer

```
MariaDB [Ashish]> create table Customer
-> (
-> srno int PRIMARY KEY,
-> name varchar(20),
-> city varchar(20),
-> grade int,
-> sales_id int,
-> FOREIGN KEY (sales_id) REFERENCES Salesman(id)
-> );
Query OK, 0 rows affected (0.24 sec)
```

3. create table orders

```
MariaDB [Ashish]> create table Orders
-> (
-> no int PRIMARY KEY,
-> amount float(11,2),
-> date date,
-> cust_id int,
-> sales_id int,
-> CONSTRAINT fk1 FOREIGN KEY (sales_id) REFERENCES Salesman(id),
-> CONSTRAINT fk2 FOREIGN KEY (cust_id) REFERENCES Customer(srno)
-> );
Query OK, 0 rows affected (0.28 sec)
```

4. insert values in the salesman

```

MariaDB [Ashish]> insert into Salesman
-> values(5001,'Ashish','jhunjhunu',0.15);
Query OK, 1 row affected (0.04 sec)

MariaDB [Ashish]> insert into Salesman values(5002,'abhishek','jaipur',0.13);
Query OK, 1 row affected (0.03 sec)

MariaDB [Ashish]> insert into Salesman values(5005,'swaraj','mumbai',0.11);
Query OK, 1 row affected (0.04 sec)

MariaDB [Ashish]> insert into Salesman values(5006,'himanshu','jaipur',0.14);
Query OK, 1 row affected (0.05 sec)

MariaDB [Ashish]> insert into Salesman values(5003,'satish','',0.12);
Query OK, 1 row affected (0.05 sec)

MariaDB [Ashish]> insert into Salesman values(5007,'ajay','delhi',0.13);
Query OK, 1 row affected (0.05 sec)

MariaDB [Ashish]> select * from salesman;
+-----+-----+-----+-----+
| id    | name    | city    | commission |
+-----+-----+-----+-----+
| 5001  | Ashish  | jhunjhunu | 0.15 |
| 5002  | abhishek | jaipur    | 0.13 |
| 5003  | satish  |           | 0.12 |
| 5005  | swaraj  | mumbai    | 0.11 |
| 5006  | himanshu | jaipur    | 0.14 |
| 5007  | ajay    | delhi     | 0.13 |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)

```

5. insert values in the customer

```

MariaDB [Ashish]> insert into customer values(3002,'nitesh','jhunjhunu',100,5001);
Query OK, 1 row affected (0.07 sec)

MariaDB [Ashish]> insert into customer values(3005,'goyal','punjab',200,5002);
Query OK, 1 row affected (0.09 sec)

MariaDB [Ashish]> insert into customer values(3001,'bharat','mumbai','',5005);
Query OK, 1 row affected, 1 warning (0.05 sec)

MariaDB [Ashish]> insert into customer values(3004,'farukh','jaipur',300,5006);
Query OK, 1 row affected (0.07 sec)

MariaDB [Ashish]> insert into customer values(3007,'badshaah','jhunjhunu',200,5001);
Query OK, 1 row affected (0.11 sec)

MariaDB [Ashish]> insert into customer values(3009,'gaurav','kerala',100,5003);
Query OK, 1 row affected (0.11 sec)

MariaDB [Ashish]> insert into customer values(3008,'jayant','mumbai',300,5002);
Query OK, 1 row affected (0.08 sec)

MariaDB [Ashish]> insert into customer values(3003,'jolie','jammu',200,5007);
Query OK, 1 row affected (0.05 sec)

MariaDB [Ashish]> select * from customer;
+-----+-----+-----+-----+-----+
| srno | name  | city    | grade | sales_id |
+-----+-----+-----+-----+-----+
| 3001 | bharat | mumbai  | 0     | 5005     |
| 3002 | nitesh | jhunjhunu | 100   | 5001     |
| 3003 | jolie  | jammu   | 200   | 5007     |
| 3004 | farukh | jaipur  | 300   | 5006     |
| 3005 | goyal  | punjab  | 200   | 5002     |
| 3007 | badshaah | jhunjhunu | 200   | 5001     |
| 3008 | jayant | mumbai  | 300   | 5002     |
| 3009 | gaurav | kerala  | 100   | 5003     |
+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)

```

6. insert values in the order

```

MariaDB [Ashish]> insert into orders values(70001,150.5,'2012-10-05',3005,5002);
Query OK, 1 row affected (0.09 sec)

MariaDB [Ashish]> insert into orders values(70009,270.65,'2012-09-10',3001,5005);
Query OK, 1 row affected (0.07 sec)

MariaDB [Ashish]> insert into orders values(70002,65.26,'2012-10-05',3002,5001);
Query OK, 1 row affected (0.07 sec)

MariaDB [Ashish]> insert into orders values(70004,110.5,'2012-08-17',3009,5003);
Query OK, 1 row affected (0.10 sec)

MariaDB [Ashish]> insert into orders values(70007,948.5,'2012-09-10',3005,5002);
Query OK, 1 row affected (0.08 sec)

MariaDB [Ashish]> insert into orders values(70005,2400.6,'2012-07-27',3007,5001);
Query OK, 1 row affected (0.07 sec)

MariaDB [Ashish]> insert into orders values(70008,5760,'2012-09-10',3002,5001);
Query OK, 1 row affected (0.06 sec)

MariaDB [Ashish]> insert into orders values(70010,1983.43,'2012-10-10',3004,5006);
Query OK, 1 row affected (0.08 sec)

MariaDB [Ashish]> insert into orders values(70003,2480.4,'2012-10-10',3009,5003);
Query OK, 1 row affected (0.05 sec)

MariaDB [Ashish]> insert into orders values(70012,250.45,'2012-06-27',3008,5002);
Query OK, 1 row affected (0.05 sec)

MariaDB [Ashish]> insert into orders values(70011,75.29,'2012-08-17',3003,5007);
Query OK, 1 row affected (0.08 sec)

MariaDB [Ashish]> insert into orders values(70013,3045.6,'2012-04-25',3002,5001);
Query OK, 1 row affected (0.05 sec)

MariaDB [Ashish]> select * from orders;
+-----+-----+-----+-----+-----+
| no    | amount | date      | cust_id | sales_id |
+-----+-----+-----+-----+-----+
| 70001 | 150.50 | 2012-10-05 | 3005    | 5002    |
| 70002 | 65.26  | 2012-10-05 | 3002    | 5001    |
| 70003 | 2480.40 | 2012-10-10 | 3009    | 5003    |
| 70004 | 110.50 | 2012-08-17 | 3009    | 5003    |
| 70005 | 2400.60 | 2012-07-27 | 3007    | 5001    |
| 70007 | 948.50 | 2012-09-10 | 3005    | 5002    |
| 70008 | 5760.00 | 2012-09-10 | 3002    | 5001    |
| 70009 | 270.65 | 2012-09-10 | 3001    | 5005    |
| 70010 | 1983.43 | 2012-10-10 | 3004    | 5006    |
| 70011 | 75.29  | 2012-08-17 | 3003    | 5007    |
| 70012 | 250.45 | 2012-06-27 | 3008    | 5002    |
| 70013 | 3045.60 | 2012-04-25 | 3002    | 5001    |
+-----+-----+-----+-----+-----+
12 rows in set (0.00 sec)

```

Qwery1) Write a SQL statement to prepare a list with salesman name, customer name and their cities for the salesmen and customer who belongs to the same city.

```
MariaDB [Ashish]> select salesman.name as Name,customer.name as customer,salesman.city
-> from salesman inner join customer on salesman.id=customer.sales_id where salesman.city=customer.city;
```

Name	customer	city
swaraj	bharat	mumbai
Ashish	nitesh	jhunjhunu
himanshu	farukh	jaipur
Ashish	badshaah	jhunjhunu

```
4 rows in set (0.00 sec)
```

Query2) Write a SQL statement to find the list of customers who appointed a salesman for their jobs who does not live in the same city where their customer lives.

```
MariaDB [Ashish]> select customer.name from salesman inner join customer on salesman.id=customer.sales_id where salesman.city<> customer.city;
```

name
jolie
goyal
jayant
gaurav

```
4 rows in set (0.00 sec)
```

Query3) Write a SQL statement to know which salesman are working for which customer.

```
MariaDB [Ashish]> select customer.name as customer_name,salesman.name as salesman_name
-> from salesman inner join customer on customer.sales_id=salesman.id;
```

customer_name	salesman_name
bharat	swaraj
nitesh	Ashish
jolie	ajay
farukh	himanshu
goyal	abhishek
badshaah	Ashish
jayant	abhishek
gaurav	satish

```
8 rows in set (0.00 sec)
```

Query4) Write a SQL statement to make a list with order no, purchase amount, customer name and their cities for those orders which order amount between 500 and 2000.

```

MariaDB [Ashish]> select orders.no,orders.amount,customer.name as customer_name,customer.city
  -> from customer inner join orders on orders.cust_id=customer.srno where orders.amount BETWEEN 500 AND 2000;
+-----+-----+-----+-----+
| no | amount | customer_name | city |
+-----+-----+-----+-----+
| 70007 | 948.50 | goyal | punjab |
| 70010 | 1983.43 | farukh | jaipur |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

Query5) 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%.

```

MariaDB [Ashish]> select customer.name as customer_name,salesman.name as salesman_name
  -> from salesman inner join customer on customer.sales_id=salesman.id where salesman.commission>0.12;
+-----+-----+
| customer_name | salesman_name |
+-----+-----+
| nitesh | Ashish |
| jolie | ajay |
| farukh | himanshu |
| goyal | abhishek |
| badshaah | Ashish |
| jayant | abhishek |
+-----+-----+
6 rows in set (0.00 sec)

```

Query6) 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.

```

MariaDB [Ashish]> select orders.no,orders.date,orders.amount,customer.name as customer_name,salesman.name as sales_man,salesman.commission
  -> from orders inner join customer on orders.cust_id =customer.srno inner join salesman on customer.sales_id =salesman.id;
+-----+-----+-----+-----+-----+-----+
| no | date | amount | customer_name | sales_man | commission |
+-----+-----+-----+-----+-----+-----+
| 70002 | 2012-10-05 | 65.26 | nitesh | Ashish | 0.15 |
| 70005 | 2012-07-27 | 2400.60 | badshaah | Ashish | 0.15 |
| 70008 | 2012-09-10 | 5760.00 | nitesh | Ashish | 0.15 |
| 70013 | 2012-04-25 | 3045.60 | nitesh | Ashish | 0.15 |
| 70001 | 2012-10-05 | 150.50 | goyal | abhishek | 0.13 |
| 70007 | 2012-09-10 | 948.50 | goyal | abhishek | 0.13 |
| 70012 | 2012-06-27 | 250.45 | jayant | abhishek | 0.13 |
| 70003 | 2012-10-10 | 2480.40 | gaurav | satish | 0.12 |
| 70004 | 2012-08-17 | 110.50 | gaurav | satish | 0.12 |
| 70009 | 2012-09-10 | 270.65 | bharat | swaraj | 0.11 |
| 70010 | 2012-10-10 | 1983.43 | farukh | himanshu | 0.14 |
| 70011 | 2012-08-17 | 75.29 | jolie | ajay | 0.13 |
+-----+-----+-----+-----+-----+-----+
12 rows in set (0.00 sec)

```