**CRM and Sales Analytics Platform**

**Create and use a database with the name: sales**

create database sales;

use sales;

**Create the Table with the name Salesman and Display all the data in the table.**

Create table Salesman(

Salesman\_id int primary key,

Name varchar(25) Not null,

City varchar(25),

Commission float

);

insert into salesman values

(5001, 'James Hogg', 'New York', 0.15),

(5002, 'Nail Knite', 'Paris', 0.13),

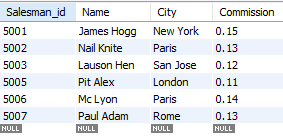
(5005, 'Pit Alex', 'London', 0.11),

(5006, 'Mc Lyon', 'Paris', 0.14),

(5007, 'Paul Adam', 'Rome', 0.13),

(5003, 'Lauson Hen', 'San Jose', 0.12);

select \* from salesman;



**Create the Table with the name customer and Display all the data in the table.**

create table customer (

Customer\_id int primary key,

Cust\_name varchar(25) not null,

City varchar(25),

Grade int,

Salesman\_id int

);

insert into customer values

(3002, 'Nick Rimando', 'New York', 100, 5001),

(3007, 'Brad Davis', 'New York', 200, 5001),

(3005, 'Graham Zusi', 'california', 200, 5002),

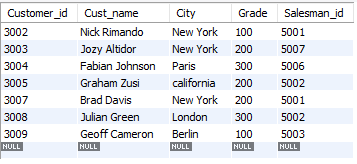
(3008, 'Julian Green', 'London', 300, 5002),

(3004, 'Fabian Johnson', 'Paris', 300, 5006),

(3009, 'Geoff Cameron', 'Berlin', 100, 5003),

(3003, 'Jozy Altidor', 'New York', 200, 5007);

select \* from customer;

****

**write a SQL query to change the following data from salesman**

**1] Change commission of salesman with name of ‘Pit Alex’ to 0.22**

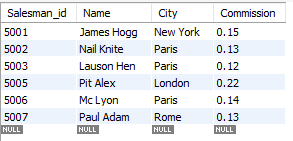
Update salesman set Commission = 0.22 where name = 'Pit Alex';

**2] Change city of salesman with salesman id of ‘5003’ to Paris**

Update salesman set City = 'Paris' where Salesman\_id = 5003;

**3] Display all the data from the table salesman**

select \* from salesman;



**write a SQL query to alter the following data from customer table**

**1] Change grade of customer with name of ‘Graham Zusi’ to 300**

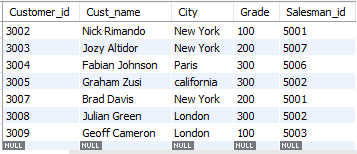
update customer set grade = 300 where cust\_name = 'Graham Zusi';

**2] Change city of customer with cust\_id of ‘3009’ to London**

update customer set City = 'London' where Customer\_id = 3009;

**3] Display all the data in the table**

select \* from customer;

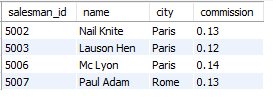


**Write a SQL query to find the details of those salespeople who come from the 'Paris' City or 'Rome' City. Return salesman id, name, city, commission.**

select salesman\_id, name, city, commission from salesman where city = 'Paris' or city = 'Rome';

OR

select salesman\_id, name, city, commission from salesman where city in ('Paris', 'Rome');



**Write a SQL query to find the details of those salespeople who live in cities apart from 'Paris' and 'Rome'. Return salesman id, name, city, commission**

select salesman\_id, name, city, commission from salesman where city != 'Paris' and city != 'Rome';

OR

select salesman\_id, name, city, commission from salesman where city not in ('Paris', 'Rome');



**Write a SQL query to find the details of salespeople who get the commission in the range from 0.12 to 0.14 (begin and end values are included). Return salesman id, name, city, and commission.**

select salesman\_id, name, city, commission from salesman where commission between 0.11 and 0.15;

OR

select salesman\_id, name, city, commission from salesman where commission > 0.11 and commission < 0.15;



**Write a SQL query to find the details of those salespeople whose name starts with any letter within 'A' and 'L' (not inclusive). Return salesman id, name, city, commission.**

select salesman\_id, name, city, commission from salesman where name between 'a%' and 'l%';



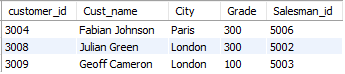
**Write a SQL query to find the details of the customers whose name begins with the letter 'B'. Return customer id, customer name, city, grade, salesman id.**

select customer\_id, Cust\_name, City, Grade, Salesman\_id from customer where cust\_name like 'b%';



**Write a SQL query to find the details of the customers whose names end with the letter 'n'. Return customer\_id, cust\_name, city, grade, salesman\_id.**

select customer\_id, Cust\_name, City, Grade, Salesman\_id from customer where cust\_name like '%n';



**Write a SQL query to find the details of those salespeople whose name starts with ‘N’ and the fourth character is 'l'. Rests may be any character. Return salesman id, name, city, commission.**

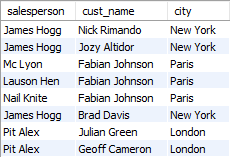
select \* from salesman where name like 'n\_\_l%';



**Write a SQL query to find the salesperson and customer who belongs to same city. Return Salesman, cust\_name and city.**

select salesman.name as salesperson, customer.cust\_name, customer.city from salesman

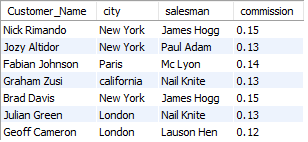
inner join customer on salesman.city = customer.city;



**Write a SQL query to find the salesperson(s) and the customer(s) he handle. Return Customer Name, city, Salesman, commission**

select Customer.cust\_name as Customer\_Name, Customer.city, salesman.name as salesman, salesman.commission from salesman

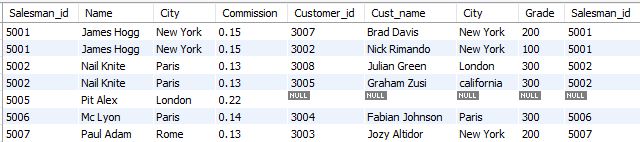
inner join Customer on salesman.salesman\_id = Customer.salesman\_id;



**Write a SQL query to find those salespersons who received more than 12% commission from the company.**

select \* from salesman left join customer on salesman.salesman\_id = customer.salesman\_id

where salesman.commission > 0.12;



**Write a SQL query to find those salespersons do not live in the same city where their customers live and received a commission from the company more than 12%. Return Customer Name, customer city, Salesman, salesman city, commission.**

select customer.cust\_name as customer\_name, customer.city as customer\_city, salesman.name as salesman,

salesman.city as salesman\_city, salesman.commission from salesman inner join customer

on salesman.salesman\_id = customer.salesman\_id where salesman.city != customer.city and salesman.commission > 0.12;



**Create the following Table with the name Orders and Display data.**

create table Orders(

Ord\_no int primary key,

Purch\_amt float not null,

Ord\_date date,

Customer\_id int,

Salesman\_id int );

insert into orders values

(70001, 150.5, '2012-10-05', 3005, 5002),

(70009, 270.65, '2012-09-10', 3001, 5005),

(70002, 65.26, '2012-10-05', 3002, 5001),

(70004, 110.5, '2012-08-17', 3009, 5003),

(70007, 948.5, '2012-09-10', 3005, 5002),

(70005, 2400.6, '2012-07-27', 3007, 5001),

(70008, 5760, '2012-09-10', 3002, 5001),

(70010, 1983.43, '2012-10-10', 3004, 5006),

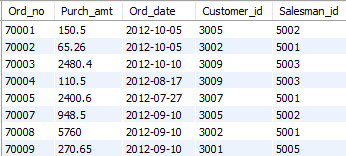
(70003, 2480.4, '2012-10-10', 3009, 5003),

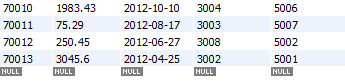
(70012, 250.45, '2012-06-27', 3008, 5002),

(70011, 75.29, '2012-08-17', 3003, 5007),

(70013, 3045.6, '2012-04-25', 3002, 5001);

select \* from orders;





**Write a SQL query to calculate total purchase amount of all orders. Return total purchase amount.**

select sum(purch\_amt) as Total\_purchase\_amount from orders;



**Write a SQL query to calculate average purchase amount of all orders. Return average purchase amount**

select avg(purch\_amt) as Average\_purchase\_amount from orders;



**Write a SQL query to count the number of unique salespeople. Return number of salespeople.**

select count(distinct(salesman\_id)) as Number\_of\_salespeople from orders;



**Write a SQL query to count the number of customers. Return number of customers.**

select count(distinct(customer\_id)) as Number\_of\_customers from orders;



**EER Diagram**

