create database lab\_3;

use lab\_3

create table salesman(

salesman\_id int PRIMARY KEY,

name varchar(255),

city varchar (255),

commision float

);

INSERT INTO salesman (salesman\_id,name,city,commision)

VALUES (5001,'James Hoog', 'New York', 0.15),

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

(5005,'Pit Alex', 'London', 0.15),

(5006,'Mac Lyon', 'Paris', 0.15),

(5007,'Paul Adam', 'San Jose', 0.15),

(5003,'Lausan Hen', 'San Jose', 0.15);

create table customers(

customer\_id int PRIMARY KEY,

cust\_name varchar(50),

city varchar(50),

grade int,

salesman\_id int,

FOREIGN KEY (salesman\_id) References salesman(salesman\_id) ON DELETE CASCADE ON UPDATE CASCADE

);

GO

INSERT INTO customers (customer\_id, cust\_name,city, grade, salesman\_id)

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

(3007,'John 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', 'Moscow', 200,5007),

(3001, 'John Brad Guzan', 'London',NULL,5005)

create table orders(

ord\_no int PRIMARY KEY,

purch\_amt int,

ord\_date date,

customer\_id int,

FOREIGN KEY (customer\_id) References customers(customer\_id)ON DELETE NO ACTION ON UPDATE NO ACTION,

salesman\_id int,

FOREIGN KEY(salesman\_id) REFERENCES salesman(salesman\_id)ON DELETE NO ACTION ON UPDATE NO ACTION

);

INSERT INTO orders (ord\_no, salesman\_id, purch\_amt, ord\_date, customer\_id)

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

(70009, 5005, 270.65, '2011-9-10', 3001),

(70002, 5001, 65.26, '2014-10-05', 3002),

(70004, 5003, 110.5, '2011-08-17', 3009),

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

(70005, 5001,2400.6, '2010-07-27', 3007),

(70008, 5001,5760, '2013-09-10', 3002),

(70010, 5006,1983.43, '2010-10-10', 3004),

(70003, 5003,2480.4, '2013-10-10', 3009),

(70012, 5002,250.45, '2010-06-27', 3008),

(70011, 5007,75.29, '2014-08-17', 3003),

(70013, 5001,3045.6, '2010-04-25', 3002);

SELECT \* FROM orders;

--1

SELECT \* from customers where city='New York'ORDER BY cust\_name;

--2

SELECT \* from customers where cust\_name like '%John%' AND (city='London' OR city='Paris' OR city='New York');

--3

SELECT \* from customers where city='London' OR city='New York';

--4

SELECT \* from orders where purch\_amt>500;

--5

SELECT \* from salesman where name like '\_a%';

--6

SELECT \* from orders

SELECT name,commision+0.6,city FROM salesman

WHERE city='San Jose';

--7

SELECT \* FROM orders

ORDER BY ord\_date desc;

--8

SELECT salesman\_id, LEFT(name, CHARINDEX(' ', name + ' ') - 1) AS firstname, city, commision

FROM salesman;

--9

SELECT \* FROM orders

SELECT \* FROM orders where MONTH(ord\_date)=1;

--10

SELECT YEAR(ord\_date) AS [Year],MONTH(ord\_date) AS [month],DAY(ord\_date) AS [day],DATENAME(dw,ord\_date) as [week\_day],DATEPART(dy,ord\_date) as [day\_of\_year] FROM orders;

--Post lab from Q11 to Q14

--11

SELECT \* from orders

UPDATE orders set[purch\_amt]=purch\_amt\*3 where MONTH(ord\_date)=10;

--12

SELECT DISTINCT c.customer\_id, c.cust\_name

FROM customers c

JOIN orders o ON c.customer\_id = o.customer\_id

WHERE YEAR(o.ord\_date) = 2013

INTERSECT

SELECT DISTINCT c.customer\_id, c.cust\_name

FROM customers c

JOIN orders o ON c.customer\_id = o.customer\_id

WHERE YEAR(o.ord\_date) = 2014;

--13

SELECT DISTINCT c.customer\_id, c.cust\_name

FROM customers c

JOIN orders o ON c.customer\_id = o.customer\_id

WHERE YEAR(o.ord\_date) = 2011

UNION

SELECT DISTINCT c.customer\_id, c.cust\_name

FROM customers c

JOIN orders o ON c.customer\_id = o.customer\_id

WHERE YEAR(o.ord\_date) = 2013;

--14

SELECT DISTINCT c.customer\_id, c.cust\_name

FROM customers c

JOIN orders o ON c.customer\_id = o.customer\_id

WHERE YEAR(o.ord\_date) = 2012

EXCEPT

SELECT DISTINCT c.customer\_id, c.cust\_name

FROM customers c

JOIN orders o ON c.customer\_id = o.customer\_id

WHERE YEAR(o.ord\_date) = 2014;