create database prac\_10;

use prac\_10;

CREATE TABLE SALESMAN

(

SALESMAN\_ID INT,

NAME VARCHAR(15),

CITY VARCHAR(15),

COMMISSION FLOAT

);

DROP TABLE SALESMAN;

CREATE TABLE CUSTOMER

(

CUST\_ID INT,

CUST\_NAME VARCHAR(20),

CITY VARCHAR(15),

GRADE INT,

SALESMAN\_ID INT

);

CREATE TABLE ORDERS

(

ORD\_NO INT,

PURCHASE\_AMT INT,

ORDER\_DATE DATE,

CUST\_ID INT,

SALESMAN\_ID INT

);

INSERT INTO SALESMAN VALUES(5001,'James Hoog','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);

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','Moscow',200,5007),

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

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);

-- 1

SELECT \*

FROM SALESMAN S

NATURAL JOIN CUSTOMER

NATURAL JOIN ORDERS;

-- 2

SELECT \*

FROM CUSTOMER C

LEFT JOIN SALESMAN S ON C.SALESMAN\_ID = S.SALESMAN\_ID

ORDER BY C.CUST\_NAME ASC;

-- 3

SELECT \*

FROM CUSTOMER C

LEFT JOIN SALESMAN S ON C.SALESMAN\_ID = S.SALESMAN\_ID

WHERE C.GRADE < 300

ORDER BY C.CUST\_NAME ASC;

-- 4

SELECT S.SALESMAN\_ID, S.NAME, S.CITY, S.COMMISSION, C.CUST\_ID, C.CUST\_NAME

FROM SALESMAN S

RIGHT JOIN CUSTOMER C ON S.SALESMAN\_ID = C.SALESMAN\_ID

ORDER BY S.NAME ASC;

-- 5

SELECT S.SALESMAN\_ID, S.NAME, S.CITY, S.COMMISSION, C.CUST\_ID, C.CUST\_NAME, O.ORD\_NO, O.PURCHASE\_AMT

FROM SALESMAN S

LEFT JOIN CUSTOMER C ON S.SALESMAN\_ID = C.SALESMAN\_ID

LEFT JOIN ORDERS O ON C.CUST\_ID = O.CUST\_ID

WHERE (O.PURCHASE\_AMT >= 2000 OR O.PURCHASE\_AMT IS NULL)

AND (C.GRADE IS NOT NULL)

ORDER BY S.NAME ASC;

-- 6

SELECT C.CUST\_NAME, C.CITY, O.ORD\_NO, O.ORDER\_DATE, O.PURCHASE\_AMT

FROM CUSTOMER C

LEFT JOIN ORDERS O ON C.CUST\_ID = O.CUST\_ID

UNION

SELECT C.CUST\_NAME, C.CITY, O.ORD\_NO, O.ORDER\_DATE, O.PURCHASE\_AMT

FROM CUSTOMER C

RIGHT JOIN ORDERS O ON C.CUST\_ID = O.CUST\_ID

ORDER BY C.CUST\_NAME ASC;

-- 7

SELECT S.\*, C.\*

FROM SALESMAN S

CROSS JOIN CUSTOMER C

WHERE S.CITY IS NOT NULL;

-- 8

SELECT S.\*, C.\*

FROM SALESMAN S

CROSS JOIN CUSTOMER C

WHERE S.CITY != C.CITY AND C.GRADE IS NOT NULL;

SELECT \* FROM ORDERS;

SELECT \* FROM SALESMAN;

SELECT \* FROM CUSTOMER;