```
SQL> SET LINESIZE 200;
SQL> SET PAGESIZE 20;
SQL> -- Question 1
SQL> CREATE TABLE Agent(agent code varchar2(5), agent name varchar2(10), working area varchar2(15), commision number(2,2), phone no varchar2(10), country varchar2(10),
2 CONSTRAINT Agent pk PRIMARY KEY(agent code));
Table created.
SQL> CREATE TABLE Orders(ord num varchar2(3), ord amount number, advance amount number, ord date date, cust code varchar(4), agent code varchar(5), description varchar(20),
 2 CONSTRAINT Orders fk FOREIGN KEY(agent code) REFERENCES Agent(agent code), CONSTRAINT Orders pk PRIMARY KEY(ord num));
Table created.
SQL> INSERT ALL
        INTO Agent(agent code, agent name, working area, commission, phone no, country) VALUES ('Ac001', 'Ramesh', 'Bangalore', .15, '0331234567', 'India')
        INTO Agent(agent code, agent name, working area, commision, phone no, country) VALUES ('Ac002', 'Dinesh', 'Bangalore', .25, '0331234568', 'India')
 4
        INTO Agent(agent code, agent name, working area, commision, phone no, country) VALUES ('Ac003', 'Suresh', 'Mumbai', .35, '0331234569', 'London')
        INTO Agent(agent code, agent name, working area, commision, phone no, country) VALUES ('Ac004', 'Kamlesh', 'New Jersey', .68, '0331234564', 'London')
        INTO Agent(agent code, agent name, working area, commission, phone no, country) VALUES ('Ac005', 'Kartik', 'Chennai', .73, '0331234563', 'India')
 7 SELECT * FROM dual;
5 rows created.
SQL> INSERT ALL
        INTO Orders(ord num, ord amount, advance amount, ord date, cust code, agent code, description) VALUES ('004', 200, 3000, '15-aug-2020', 'C004', 'Ac001', 'Masala Kulcha')
        INTO Orders(ord num, ord amount, advance amount, ord date, cust code, agent code, description) VALUES ('007', 600, 5000, '17-sep-2020', 'C006', 'Ac003', 'Biriyani')
        INTO Orders(ord num, ord amount, advance amount, ord date, cust code, agent code, description) VALUES ('008', 700, 100, '19-feb-2019', 'C007', 'Ac005', NULL)
 4
        INTO Orders(ord num, ord amount, advance amount, ord date, cust code, agent code, description) VALUES ('009', 10000, 600, '21-mar-2010', 'C009', 'Ac004', 'Masala Dosa')
        INTO Orders(ord num, ord amount, advance amount, ord date, cust code, agent code, description) VALUES ('010', 20, 600, '21-apr-2012', 'C006', 'Ac005', NULL)
 7 SELECT * FROM dual;
5 rows created.
SQL> SELECT * FROM Agent;
AGENT AGENT NAME WORKING AREA
                                 COMMISION PHONE NO COUNTRY
Ac001 Ramesh
                                        .15 0331234567 India
                Bangalore
                Bangalore
Ac002 Dinesh
                                        .25 0331234568 India
                Mumbai
Ac003 Suresh
                                        .35 0331234569 London
Ac004 Kamlesh
                New Jersey
                                        .68 0331234564 London
Ac005 Kartik
                Chennai
                                        .73 0331234563 India
SQL> SELECT * FROM Orders;
ORD ORD AMOUNT ADVANCE AMOUNT ORD DATE CUST AGENT DESCRIPTION
```

Command Prompt - sqlplus

Type here to search

























```
Command Prompt - sqlplus
Ac005 Kartik
                                       .73 0331234563 India
                Chennai
SQL> SELECT * FROM Orders;
ORD ORD AMOUNT ADVANCE AMOUNT ORD DATE CUST AGENT DESCRIPTION
004
          200
                        3000 15-AUG-20 C004 Ac001 Masala Kulcha
                        5000 17-SEP-20 C006 Ac003 Biriyani
          600
          700
                         100 19-FEB-19 C007 Ac005
        10000
                         600 21-MAR-10 C009 Ac004 Masala Dosa
010
           20
                         600 21-APR-12 C006 Ac005
SQL> SELECT ord num, ord amount, ord date, cust code, agent code FROM Orders WHERE agent code IN
 2 (SELECT agent code FROM Agent WHERE
 3 country IN (SELECT country FROM Agent GROUP BY country HAVING count(country)>1)
 5 working area IN (SELECT working area FROM Agent GROUP BY working area HAVING count(working area)>1));
ORD ORD AMOUNT ORD DATE CUST AGENT
          200 15-AUG-20 C004 Ac001
          600 17-SEP-20 C006 Ac003
          700 19-FEB-19 C007 Ac005
        10000 21-MAR-10 C009 Ac004
           20 21-APR-12 C006 Ac005
SQL> SELECT ord_num, ord_amount, cust_code, agent_code FROM orders WHERE
 2 agent code IN (SELECT agent code FROM agent WHERE agent code IN
 3 (SELECT agent code FROM agent WHERE agent.agent code=orders.agent code and agent name like '%a%')
 4 and
 5 working area not in(SELECT working area FROM agent group by working area having count(working area)>1));
ORD ORD AMOUNT CUST AGENT
          700 C007 Ac005
        10000 C009 Ac004
           20 C006 Ac005
SQL> DROP TABLE Orders;
Table dropped.
SQL> DROP TABLE Agent;
Table dropped.
```

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```
SQL>
SQL> -- Question 2
SQL>
SQL> CREATE TABLE employees(employee id number(3,0), first name varchar(10), last name varchar(10), email varchar(15), phone number varchar(10), hire date date, job id varchar(5), salary number, manager id numbe
r, department id number,
 2 CONSTRAINT Employee pk PRIMARY KEY(employee id));
Table created.
SQL>
SQL> INSERT ALL
        INTO employees(employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, manager_id, department_id) VALUES (700, 'Hasmukh', 'Patel', 'hp@gmail.com', '7003216160','15-aug-2020',
'Hp003', 7000, NULL, 90)
        INTO employees(employee id, first name, last name, email, phone number, hire date, job id, salary, manager id, department id) VALUES (800, 'Kamlesh', 'Paul', 'kp@gmail.com', '7003216170','17-feb-2020',
Kp004', 8000, 506, 90)
        INTO employees(employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, manager_id, department_id) VALUES (900, 'Dinesh', 'Gandhi', 'dp@yahoo', '9136278563','19-mar-2101','Dg0
        INTO employees(employee id, first name, last name, email, phone number, hire date, job id, salary, manager id, department id) VALUES (701, 'Suresh', 'Modi', 'sm@dg.com', '9187653294','20-apr-2015', 'Sm00
9', 15000, NULL, 80)
 6 SELECT 1 from dual;
4 rows created.
SQL> SELECT * FROM employees;
EMPLOYEE ID FIRST NAME LAST NAME EMAIL
                                                 PHONE NUMB HIRE DATE JOB I
                                                                                SALARY MANAGER ID DEPARTMENT ID
       700 Hasmukh
                      Patel
                                 hp@gmail.com
                                                 7003216160 15-AUG-20 Hp003
                                                                                  7000
                                                                                                             90
                                 kp@gmail.com
       800 Kamlesh
                      Paul
                                                 7003216170 17-FEB-20 Kp004
                                                                                  8000
                                                                                                             90
       900 Dinesh
                      Gandhi
                                 dp@yahoo
                                                 9136278563 19-MAR-01 Dg006
                                                                                 20000
                                                                                              508
                                                                                                             80
       701 Suresh
                      Modi
                                  sm@dg.com
                                                 9187653294 20-APR-15 Sm009
                                                                                 15000
                                                                                                             80
SQL> SELECT employee id, manager id, first name, last name FROM employees WHERE
 2 manager id is NULL
 4 salary<(SELECT avg(salary) FROM employees WHERE last name LIKE 'P%');
EMPLOYEE ID MANAGER ID FIRST NAME LAST NAME
       700
                      Hasmukh
                               Patel
SQL> DROP TABLE employees;
Table dropped.
```

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Command Prompt - sqlplus

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Command Prompt - sqlplus
SOL>
SQL> CREATE TABLE salesman(salesman id varchar(8), name varchar(15),city varchar(15),commission float,
 2 CONSTRAINT salesman pk PRIMARY KEY(salesman id));
Table created.
SQL> CREATE TABLE Orders(ord no number, purch amt number, ord date date, customer id varchar(5), salesman id varchar(8),
 2 CONSTRAINT Orders fk FOREIGN KEY(salesman id) REFERENCES salesman(salesman id) ON DELETE SET NULL, CONSTRAINT Orders pk PRIMARY KEY(ord no));
Table created.
SQL> INSERT ALL
        INTO salesman(salesman id, name ,city ,commission ) VALUES ('si123@06', 'Lakshmi', 'Kolkata', .5)
        INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@09', 'Ganesh', 'London', .6)
        INTO salesman(salesman id, name ,city ,commission ) VALUES ('si123@90', 'Dinesh', 'London', .3)
        INTO salesman(salesman_id, name ,city ,commission ) VALUES ('si123@10', 'Joseph', 'Chennai', .6)
        INTO salesman(salesman id, name ,city ,commission ) VALUES ('si123@19', 'Mahesh', 'Chennai', .65)
 6
        INTO salesman(salesman id, name ,city ,commission ) VALUES ('si123@26', 'Paul Adam', 'London', .1)
        INTO salesman(salesman id, name ,city ,commission ) VALUES ('si123@67', 'Rahul', 'Kolkata', .4)
 9 SELECT 1 FROM dual;
rows created.
SQL> INSERT ALL
        INTO Orders(ord no, purch amt, ord date, customer id, salesman id) VALUES (123, 600, '20-aug-2010', '003cd', 'si123@19')
        INTO Orders(ord no, purch amt, ord date, customer id, salesman id) VALUES (576, 750, '20-feb-2018', '004cd', 'si123@19')
        INTO Orders(ord no, purch amt, ord date, customer id, salesman id) VALUES (579, 800, '20-may-2012', '004cd', 'si123@26')
 4
        INTO Orders(ord no, purch amt, ord date, customer id, salesman id) VALUES (600, 60000, '20-jan-2021', '006cd', 'si123@10')
        INTO Orders(ord no, purch amt, ord date, customer id, salesman id) VALUES (700, 745, '26-jan-2021', '007cd', 'si123@09')
        INTO Orders(ord no, purch amt, ord date, customer id, salesman id) VALUES (800, 860, '29-jan-2019', '007cd', 'si123@26')
 8 SELECT 1 FROM dual;
6 rows created.
SQL> SELECT * FROM salesman;
SALESMAN NAME
                        CITY
                                        COMMISSION
si123@06 Lakshmi
                        Kolkata
si123@09 Ganesh
                        London
                                                 .6
si123@90 Dinesh
                        London
                                                 .3
si123@10 Joseph
                        Chennai
                                                 .6
                                                .65
si123@19 Mahesh
                        Chennai
si123@26 Paul Adam
                                                 .1
                        London
si123@67 Rahul
                        Kolkata
                                                 .4
rows selected.
SOL> SELECT * FROM Orders;
```

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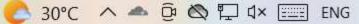




















```
Command Prompt - sqlplus
                                                                                                                                                                                               si123@06 Lakshmi
                       Kolkata
                                              .5
si123@09 Ganesh
                                              .6
                       London
si123@90 Dinesh
                                              .3
                       London
si123@10 Joseph
                                              .6
                       Chennai
si123@19 Mahesh
                       Chennai
                                             .65
si123@26 Paul Adam
                                              .1
                       London
si123@67 Rahul
                       Kolkata
                                              .4
7 rows selected.
SQL> SELECT * FROM Orders;
   ORD NO PURCH AMT ORD DATE CUSTO SALESMAN
     123
                600 20-AUG-10 003cd si123@19
                750 20-FEB-18 004cd si123@19
     576
     579
                800 20-MAY-12 004cd si123@26
              60000 20-JAN-21 006cd si123@10
     600
      700
                745 26-JAN-21 007cd si123@09
      800
                860 29-JAN-19 007cd si123@26
6 rows selected.
SQL> SELECT ord_no, purch_amt, ord_date, customer_id FROM Orders WHERE
2 salesman id in
3 (SELECT a.salesman id FROM salesman a WHERE a.commission > (SELECT avg(b.commission) FROM salesman b WHERE a.city=b.city GROUP BY city));
   ORD NO PURCH AMT ORD DATE CUSTO
     700
                745 26-JAN-21 007cd
      576
                750 20-FEB-18 004cd
      123
                600 20-AUG-10 003cd
SQL> DELETE FROM salesman WHERE commission > 0.2;
6 rows deleted.
SQL> ALTER TABLE Orders
2 DISABLE CONSTRAINT Orders_fk;
Table altered.
SQL> UPDATE Orders SET salesman id = 'NA' WHERE salesman id is NULL;
4 rows updated.
                                                                                                                                                   Type here to search
```

Command Prompt - sqlplus SQL> SELECT * FROM salesman;

SALESMAN NAME COMMISSION CITY si123@26 Paul Adam London

SQL> SELECT * FROM Orders;

ORD_NO PURCH_AMT ORD_DATE CUSTO SALESMAN 123 600 20-AUG-10 003cd NA 576 750 20-FEB-18 004cd NA 579 800 20-MAY-12 004cd si123@26 600 60000 20-JAN-21 006cd NA 700 745 26-JAN-21 007cd NA 800 860 29-JAN-19 007cd si123@26

6 rows selected.

SQL> DROP TABLE Orders;

Table dropped.

SQL> DROP TABLE salesman;

Table dropped.

SQL> _

Type here to search



































