

QUESTION 8

Create the following table DEPT (DCODE,DEPARTMENT,CITY) and WORKER (WNO,NAME,DOJ(DATE OF JOINING), DOB(DATE OF BIRTH), GENDER,DCODE) and write SQL commands for the following statements and display the output:

TABLE : DEPT

Number of Records: 5

DCODE	DEPARTMENT	CITY
D01	MEDIA	DELHI
D02	MARKETING	DELHI
D03	INFRASTRUCTURE	MUMBAI
D05	FINANCE	KOLKATA
D04	HUMAN RESOURCES	MUMBAI

TABLE : WORKER

Number of Records: 7

WNO	NAME	DOJ	DOB	GENDER	DCODE
1001	GEORGE K	2013-09-02	1991-09-01	MALE	D01
1002	RYMA SEN	2012-12-11	1990-12-15	FEMALE	D02
1003	MOHITESH	2013-02-03	1987-09-04	MALE	D05
1007	ANIL JHA	2014-01-17	1984-10-19	MALE	D04
1004	MAPILA SAHAI	2012-12-09	1986-11-14	FEMALE	D01
1005	R SAHAY	2013-11-18	1987-03-31	MALE	D02
1006	JAYA PRIYA	2014-06-09	1985-06-23	FEMALE	D05

- i) To display Wno, Name, Gender from the table WORKER in descending order of Wno.
- ii) To display the Name of all the FEMALE workers from the table WORKER.
- iii) To display the Wno and Name of those workers from the table WORKER who are born between '1987-01-01' and '1991-12-01'.
- iv) To count and display MALE workers who have joined after '1986-01-01'.
- v) To display and count DCODE FROM WORKER;
- vi) To display DISTINCT DEPARTMENT FROM DEPT;

vii) to display NAME,DEPARTMENT,CITY FROM worker and dept
WHERE W.DCODE=D.DCODE AND WNO<1003;

viii) To Display MAX(DOJ),MIN(DOB)FROM WORKER;

CREATING TABLES

DEPT

```
CREATE TABLE DEPT (DCODE VARCHAR(7) PRIMARY KEY, DEPARTMENT CHAR(20) , CITY CHAR(10));
```

```
INSERT INTO DEPT VALUES ('D01', 'MEDIA', 'DELHI');  
INSERT INTO DEPT VALUES ('D02', 'MARKETING', 'DELHI');  
INSERT INTO DEPT VALUES ('D03', 'INFRASTRUCTURE', 'MUMBAI');  
INSERT INTO DEPT VALUES ('D05', 'FINANCE', 'KOLKATA');  
INSERT INTO DEPT VALUES ('D04', 'HUMAN RESOURCES', 'MUMBAI');
```

Number of Records: 5

DCODE	DEPARTMENT	CITY
D01	MEDIA	DELHI
D02	MARKETING	DELHI
D03	INFRASTRUCTURE	MUMBAI
D05	FINANCE	KOLKATA
D04	HUMAN RESOURCES	MUMBAI

WORKER

```
CREATE TABLE WORKER (WNO INTEGER, NAME CHAR(20), DOJ DATETIME, DOB DATETIME, GENDER CHAR(10), DCODE VARCHAR(5));
```

```
INSERT INTO WORKER VALUES (1001, 'GEORGE K', '2013-09-02', '1991-09-01', 'MALE', 'D01');  
INSERT INTO WORKER VALUES (1002, 'RYMA SEN', '2012-12-11', '1990-12-15', 'FEMALE', 'D02');  
INSERT INTO WORKER VALUES (1003, 'MOHITESH', '2013-02-03', '1987-09-04', 'MALE', 'D05');  
INSERT INTO WORKER VALUES (1007, 'ANIL JHA', '2014-01-17', '1984-10-19', 'MALE', 'D04');  
INSERT INTO WORKER VALUES (1004, 'MAPILA SAHAI', '2012-12-09', '1986-11-14', 'FEMALE', 'D01');  
INSERT INTO WORKER VALUES (1005, 'R SAHAY', '2013-11-18', '1987-03-31', 'MALE', 'D02');  
INSERT INTO WORKER VALUES (1006, 'JAYA PRIYA', '2014-06-09', '1985-06-23', 'FEMALE', 'D05');
```

Number of Records: 7

WNO	NAME	DOJ	DOB	GENDER	DCODE
1001	GEORGE K	2013-09-02	1991-09-01	MALE	D01
1002	RYMA SEN	2012-12-11	1990-12-15	FEMALE	D02
1003	MOHITESH	2013-02-03	1987-09-04	MALE	D05
1007	ANIL JHA	2014-01-17	1984-10-19	MALE	D04
1004	MAPILA SAHAI	2012-12-09	1986-11-14	FEMALE	D01
1005	R SAHAY	2013-11-18	1987-03-31	MALE	D02
1006	JAYA PRIYA	2014-06-09	1985-06-23	FEMALE	D05

ANSWERS

i) SELECT WNO, NAME, GENDER FROM WORKER ORDER BY WNO DESC;

Number of Records: 7

WNO	NAME	GENDER
1007	ANIL JHA	MALE
1006	JAYA PRIYA	FEMALE
1005	R SAHAY	MALE
1004	MAPILA SAHAI	FEMALE
1003	MOHITESH	MALE
1002	RYMA SEN	FEMALE
1001	GEORGE K	MALE

ii) SELECT NAME FROM WORKER WHERE GENDER='FEMALE';

Number of Records: 3

NAME
RYMA SEN
MAPILA SAHAI
JAYA PRIYA

iii) SELECT WNO, NAME FROM WORKER WHERE DOB BETWEEN '1987-01-01' AND '1991-12-01';

Number of Records: 4

WNO	NAME
1001	GEORGE K
1002	RYMA SEN
1003	MOHITESH
1005	R SAHAY

iv) SELECT COUNT(*),* FROM WORKER WHERE GENDER='MALE' AND DOJ>'1986-01-01' GROUP BY WNO;

Number of Records: 4

COUNT()	WNO	NAME	DOJ	DOB	GENDER	DCODE
1	1001	GEORGE K	2013-09-02	1991-09-01	MALE	D01
1	1003	MOHITESH	2013-02-03	1987-09-04	MALE	D05
1	1005	R SAHAY	2013-11-18	1987-03-31	MALE	D02
1	1007	ANIL JHA	2014-01-17	1984-10-19	MALE	D04

v) SELECT DCODE, COUNT(DCODE) FROM WORKER GROUP BY DCODE;

Number of Records: 4

DCODE	COUNT(DCODE)
D01	2
D02	2
D04	1
D05	2

vi) SELECT DISTINCT DEPARTMENT FROM DEPT;

Number of Records: 5

DEPARTMENT
MEDIA
MARKETING
INFRASTRUCTURE
FINANCE
HUMAN RESOURCES

vii) SELECT NAME, DEPARTMENT, CITY FROM WORKER, DEPT WHERE
DEPT.DCODE=WORKER.DCODE AND WNO<1003;

Number of Records: 2

NAME	DEPARTMENT	CITY
GEORGE K	MEDIA	DELHI
RYMA SEN	MARKETING	DELHI

viii) SELECT MAX(DOJ), MIN(DOB) FROM WORKER;

Number of Records: 1

MAX(DOJ)	MIN(DOB)
2014-06-09	1984-10-19

QUESTION 9

Create a table STOCK and DEALER STOCK data fields are as Item No, Item,Dcode, Qty, UnitPrice, StockDate and DEALER fields as Dcode, Dname and Insert the Values in it.

TABLE : STOCK

Number of Records: 7

ITEMNO	ITEM	DPCODE	QTY	UNITPRICE	STOCKDATE
5005	BALL PEN 0.5	102	100	16	2010-03-21
5003	BALL PEN 0.25	102	150	20	2010-01-01
5002	GEL PEN PREMIUM	101	125	14	2010-02-14
5006	GEL PEN CLASSIC	101	200	22	2009-01-01
5001	ERASER SMALL	102	210	5	2009-03-19
5004	ERASER BIG	102	60	10	2009-12-12
5009	SHARPENER CLASSIC	103	160	8	2009-01-23

TABLE : DEALER

Number of Records: 3

DPCODE	DNAME
101	RELIABLE STATIONERS
103	CLASSIC PLASTICS
102	CLEAR DEALS

- (i) To display details of all Items in the Stock table in ascending order of StockDate.
- (ii) To display ItemNo and Item name of those items from Stock table whose UnitPrice is more than Rupees 10.
- (iii) To display the details of those items whose dealer code (Dcode) is 102 or Quantity in Stock (Qty) is more than 100 from the table Stock.
- (iv) To display Maximum UnitPrice of items for each dealer individually as per Dcode from the table Stock.
- (v) To display the distinct Dcode from STOCK
- (vi) To display the qty*UnitPrice from STOCK where itemNo=5006

CREATING TABLES

STOCK

```
CREATE TABLE STOCK (ITEMNO CHAR(10), ITEM VARCHAR(30), DCODE INTEGER, QTY INTEGER, UNITPRICE INTEGER, STOCKDATE DATETIME);
```

```
INSERT INTO STOCK VALUES (5005, 'BALL PEN 0.5', 102, 100, 16, '2010-03-21');
INSERT INTO STOCK VALUES (5003, 'BALL PEN 0.25', 102, 150, 20, '2010-01-01');
INSERT INTO STOCK VALUES (5002, 'GEL PEN PREMIUM', 101, 125, 14, '2010-02-14');
INSERT INTO STOCK (ITEMNO, ITEM, DCODE, QTY, UNITPRICE, STOCKDATE) VALUES (5006, 'GEL PEN CLASSIC', 101, 200, 22, '2009-01-01'), (5001, 'ERASER SMALL', 102, 210, 5, '2009-03-19');
INSERT INTO STOCK (ITEMNO, ITEM, DCODE, QTY, UNITPRICE, STOCKDATE) VALUES (5004, 'ERASER BIG', 102, 60, 10, '2009-12-12'), (5009, 'SHARPENER CLASSIC', 103, 160, 8, '2009-01-23');
```

Number of Records: 7

ITEMNO	ITEM	DCODE	QTY	UNITPRICE	STOCKDATE
5005	BALL PEN 0.5	102	100	16	2010-03-21
5003	BALL PEN 0.25	102	150	20	2010-01-01
5002	GEL PEN PREMIUM	101	125	14	2010-02-14
5006	GEL PEN CLASSIC	101	200	22	2009-01-01
5001	ERASER SMALL	102	210	5	2009-03-19
5004	ERASER BIG	102	60	10	2009-12-12
5009	SHARPENER CLASSIC	103	160	8	2009-01-23

DEALER

```
CREATE TABLE DEALER (DCODE INTEGER, DNAME CHAR(30));
```

```
INSERT INTO DEALER (DCODE, DNAME) VALUES (101, 'RELIABLE STATIONERS'), (103, 'CLASSIC PLASTICS'), (102, 'CLEAR DEALS');
```

Number of Records: 3

DCODE	DNAME
101	RELIABLE STATIONERS
103	CLASSIC PLASTICS
102	CLEAR DEALS

ANSWERS

i) SELECT * FROM STOCK ORDER BY STOCKDATE ASC;

Number of Records: 7

ITEMNO	ITEM	DCODE	QTY	UNITPRICE	STOCKDATE
5006	GEL PEN CLASSIC	101	200	22	2009-01-01
5009	SHARPENER CLASSIC	103	160	8	2009-01-23
5001	ERASER SMALL	102	210	5	2009-03-19
5004	ERASER BIG	102	60	10	2009-12-12
5003	BALL PEN 0.25	102	150	20	2010-01-01
5002	GEL PEN PREMIUM	101	125	14	2010-02-14
5005	BALL PEN 0.5	102	100	16	2010-03-21

ii)SELECT ITEMNO, ITEM FROM STOCK WHERE UNITPRICE>10;

Number of Records: 4

ITEMNO	ITEM
5005	BALL PEN 0.5
5003	BALL PEN 0.25
5002	GEL PEN PREMIUM
5006	GEL PEN CLASSIC

iii) SELECT * FROM STOCK WHERE DCODE=102 OR QTY>100;

Number of Records: 7

ITEMNO	ITEM	DCODE	QTY	UNITPRICE	STOCKDATE
5005	BALL PEN 0.5	102	100	16	2010-03-21
5003	BALL PEN 0.25	102	150	20	2010-01-01
5002	GEL PEN PREMIUM	101	125	14	2010-02-14
5006	GEL PEN CLASSIC	101	200	22	2009-01-01
5001	ERASER SMALL	102	210	5	2009-03-19
5004	ERASER BIG	102	60	10	2009-12-12
5009	SHARPENER CLASSIC	103	160	8	2009-01-23

iv) SELECT DNAME, MAX(UNITPRICE) FROM DEALER, STOCK WHERE DEALER.DCODE=STOCK.DCODE GROUP BY STOCK.DCODE;

Number of Records: 3

DNAME	MAX(UNITPRICE)
RELIABLE STATIONERS	22
CLEAR DEALS	20
CLASSIC PLASTICS	8

v) SELECT DISTINCT DCODE FROM STOCK;

Number of Records: 3

DCODE
102
101
103

vi) SELECT ITEM, QTY*UNITPRICE FROM STOCK WHERE ITEMNO=5006;

Number of Records: 1

ITEM	QTY*UNITPRICE
GEL PEN CLASSIC	4400