ASSIGNMENT 5

```
Do the following query on the same table of Assignment No. 4 for
Answer the following queries:
CREATE TABLE CLIENT MASTER(
CLIENT NO VARCHAR2(6) PRIMARY KEY CHECK (CLIENT NO LIKE 'C%'),
NAME VARCHAR2 (20) NOT NULL,
CITY VARCHAR2 (15),
PINCODE NUMBER(8),
STATE VARCHAR2 (15),
BAL DUE NUMBER(10,2));
INSERT ALL
INTO CLIENT MASTER VALUES ('C1', 'ARKA PRATIM', 'KOLKATA', 700059, 'WEST
BENGAL',1000.00)
INTO CLIENT MASTER VALUES
('C2', 'SOUMYADEEP', 'MUMBAI', 700002, 'MAHARASHTRA', 2000.00)
INTO CLIENT MASTER VALUES ('C3', 'DEBARGHYA', 'NOIDA', 700078, 'UTTAR
PRADESH', 3000.00)
INTO CLIENT MASTER VALUES ('C4', 'PRITHWISH', 'KOLKATA', 800059, 'WEST
BENGAL', 4000.00)
INTO CLIENT MASTER VALUES
('C5', 'SAGNIK', 'BENGALURU', 900059, 'KARNATAKA', 5000.00)
SELECT * FROM DUAL;
1.List the names of all clients having 'a' as the third letter in
SELECT NAME FROM CLIENT MASTER WHERE NAME LIKE '--A%';
2.List the clients who stay in a city whose first letter is 'K'.
SELECT * FROM CLIENT MASTER WHERE CITY LIKE 'K%';
3.List all the clients who stay in 'Mumbai' or 'Kolkata'.
SELECT * FROM CLIENT MASTER WHERE CITY IN ('MUMBAI', 'KOLKATA');
4. List all the clients whose BalDue is greater than value 1000.
SELECT * FROM CLIENT MASTER WHERE BAL DUE > 1000;
5.List all information from the Sales Order table for orders placed
in the month of June.
UPDATE SALES ORDER SET ORDER DATE =
(TO DATE ('12-06-23', 'DD-MM-YYYY'))
WHERE ORDER NO = '0001';
```

CLILINI WAI	ME	CITY		STATE	
C1 AR	KAPRATIM	KOLKATA	700059	WEST BENGAL	1000
C2 SOL	UMODEEP	MUMBAI NOIDA KOLKATA	700002	MAHARASHTRA	2000
C3 DEE	BARGHYA	NOIDA	700078	UTTARPRADESH	3000
C4 PRI	ITHWISH	KOLKATA	800059	WEST BENGAL	4000
C5 SAG	GNIK	BENGALURU	900059	MAHARASHTRA	5000
SQL> SELEC	CT NAME FROM CLIENT	_MASTER WHERE NAME	LIKE '	-A%';	
no rows se	elected				
SQL> SELEC	CT * FROM CLIENT_MA	STER WHERE CITY LIP	Œ 'Κ%';		
CLIENT NAM	ME	CITY	PINCODE	STATE	BAL_DUE
		KOLKATA			
C4 PRI	ITHWISH	KOLKATA	800059	WEST BENGAL	4000
SQL> SELEC	CT * FROM CLIENT_MA	ASTER WHERE CITY IN	('MUMBA	[','KOLKATA');	
SQL> SELEC		STER WHERE CITY IN			BAL_DUE
CLIENT NAM	ME KAPRATIM	CITY	PINCODE	STATE	1000
CLIENT NAM	ME KAPRATIM UMODEEP	CITY	PINCODE 700059 700002	STATE	1000 2000
CLIENT NAM	ME KAPRATIM UMODEEP	CITY	PINCODE 700059 700002	STATE	1000 2000
CLIENT NAM C1 ARM C2 SOU C4 PRI	ME KAPRATIM UMODEEP ITHWISH	CITY	PINCODE 700059 700002 800059	STATE	1000 2000
CLIENT NAM C1 ARM C2 SOU C4 PRI	ME KAPRATIM UMODEEP ITHWISH CT * FROM CLIENT_MA	CITY	PINCODE 700059 700002 800059 > 1000;	STATE	1000 2000 4000
CLIENT NAM C1 ARM C2 SOU C4 PRI SQL> SELEC CLIENT NAM C2 SOU	ME KAPRATIM UMODEEP ITHWISH CT * FROM CLIENT_MA ME	CITY	PINCODE 700059 700002 800059 > 1000; PINCODE	STATE	1000 2000 4000 BAL_DUE
CLIENT NAM C1 ARM C2 SOU C4 PRI SQL> SELEC CLIENT NAM C2 SOU	ME KAPRATIM UMODEEP ITHWISH CT * FROM CLIENT_MA ME	CITY	PINCODE 700059 700002 800059 > 1000; PINCODE	STATE	1000 2000 4000 BAL_DUE
CLIENT NAM C1 ARM C2 SOU C4 PRI SQL> SELEC CLIENT NAM C2 SOU	ME KAPRATIM UMODEEP ITHWISH CT * FROM CLIENT_MA ME	CITY KOLKATA MUMBAI KOLKATA STER WHERE BAL_DUE	PINCODE 700059 700002 800059 > 1000; PINCODE	STATE	1000 2000 4000 BAL_DUE

6.List the order information for Client no 'C00001' and 'C00003'.

SELECT * FROM SALES_ORDER_DETAILS S WHERE S.ORDER_NO IN (SELECT ORDER NO FROM SALES ORDER WHERE CLIENT NO IN ('C1','C3'));

7.List products whose selling price is greater than 500 and less than or equal to 750

SELECT * FROM PRODUCT_MASTER WHERE SELL_PRICE > 500 AND SELL_PRICE
<= 750;</pre>

8.Count the total number of order.

SELECT COUNT(ORDER NO) AS TOTAL ORDERS FROM SALES ORDER;

9.Determine the maximum and minimum product prices. Rename the output as max price and min price respectively.

SELECT MAX(SELL_PRICE) max_price, MIN(SELL_PRICE) min_price FROM
PRODUCT MASTER;

10. Count the number of client who live in Kolkata.

SELECT COUNT(CITY) PEOPLE_LIVING_IN_KOLKATA FROM CLIENT_MASTER WHERE CITY = 'KOLKATA';

11. Count the number of products having price less than or equal to 500.

SELECT COUNT(SELL_PRICE) PRICE_LESSTHANEQUALTO_500 FROM PRODUCT MASTER WHERE SELL PRICE <= 500;

12. List the order number and day on which clients placed their order.

SELECT ORDER_NO , TO_CHAR(ORDER_DATE,'DAY') AS DAY FROM SALES ORDER;

13.List the Order_Date in the format `DD-Month-YY'.

SELECT TO_DATE(ORDER_DATE, 'DD-MONTH-YY') AS ORDER_DATE FROM SALES_ORDER;

14. List the date, 20 days after today's date.

SELECT SYSDATE + 20 AFTER 20 DAYS FROM DUAL;

15.List name of the client who has maximum BalDue.

SELECT NAME FROM CLIENT_MASTER WHERE BAL_DUE = (SELECT MAX(BAL_DUE) FROM CLIENT_MASTER);

16. Find the difference between maximum BalDue and minimum BalDue.

SELECT MAX(BAL DUE) - MIN(BAL DUE) AS DIFF FROM CLIENT MASTER;

```
17.Add Rs.1000/- with the salary amount of every salesmen.
```

UPDATE SMAN MAST SET SAL AMT = SAL AMT + 1000;

```
SQL> SELECT * FROM SALES_ORDER_DETAILS;
ORDER_ PRODUC QTY_DISP PRODUCT_RATE
0002 P2
                        10
                                200.1
0003 P3
                        2
0004 P4
                        3
                                  30.4
0005 P5
                        4
                                   40.5
SQL> SELECT * FROM SALES_ORDER_DETAILS S
  2 WHERE S.ORDER_NO IN (
       SELECT ORDER_NO FROM SALES_ORDER WHERE CLIENT_NO IN ('C1','C3')
ORDER_ PRODUC QTY_DISP PRODUCT_RATE
0003 P3
                         2
                                  200.1
SQL> SELECT * FROM PRODUCT_MASTER;
PRODUC DESCRIPTION QTY_ON_HAND SELL_PRICE
    FRUIT
ELECTRONICS
P2
                                 20
                                             20
P3
                                 200
                                             200
P4
       ELECTRONICS
                                  30
                                              30
P5
       SERVICE
                                             40
                                  40
SQL> SELECT * FROM PRODUCT_MASTER WHERE SELL_PRICE > 500 AND SELL_PRICE <= 750;
no rows selected
SQL>
SQL> SELECT COUNT(ORDER_NO) AS TOTAL_ORDERS FROM SALES_ORDER;
TOTAL_ORDERS
SQL> SELECT MAX(SELL_PRICE) max_price, MIN(SELL_PRICE) min_price FROM PRODUCT_MASTER;
MAX_PRICE MIN_PRICE
SQL> SELECT COUNT(CITY) PEOPLE_LIVING_IN_KOLKATA FROM CLIENT_MASTER WHERE CITY = 'KOLKATA';
PEOPLE_LIVING_IN_KOLKATA
SQL> SELECT COUNT(SELL_PRICE) PRICE_LESSTHANEQUALTO_500 FROM PRODUCT_MASTER WHERE SELL_PRICE <= 500;
PRICE_LESSTHANEQUALTO_500
SQL> SELECT ORDER_NO , TO_CHAR(ORDER_DATE, 'DAY') AS DAY FROM SALES_ORDER;
ORDER_ DAY
0001 SATURDAY
0002
     THURSDAY
0003 FRIDAY
     SATURDAY
0004
0005 SUNDAY
SQL>
```

```
SQL> SELECT TO_DATE(ORDER_DATE, 'DD-MONTH-YY') AS ORDER_DATE FROM SALES_ORDER;
 ORDER_DAT
 12-JUN-23
 14-MAR-24
 15-MAR-24
 16-MAR-24
 17-MAR-24
 SQL> SELECT SYSDATE + 20 AFTER_20_DAYS FROM DUAL;
 AFTER_20_
 06-APR-24
 SQL> SELECT NAME FROM CLIENT_MASTER WHERE BAL_DUE = (SELECT MAX(BAL_DUE) FROM CLIENT_MASTER);
 SAGNIK
 SQL> SELECT MAX(BAL_DUE) - MIN(BAL_DUE) AS DIFF FROM CLIENT_MASTER;
      DIFF
      4000
 SQL>
SQL> SELECT * FROM SMAN_MAST;
SALESM SALESMAN_NAME
                          CITY
                                               PINCODE STATE
                                                                             SAL_AMT
S1
       RAMU
                          Pune
                                                700059 WEST BENGAL
                                                                              2000.9
       UPAL
                                                700002 MAHARASHTRA
                                                                              1000.9
52
                          Pune
S3
       SHYAM
                          Pune
                                                 900059 MAHARASHTRA
                                                                              3000.9
54
       JADU
                          Pune
                                                700078 UTTARPRADESH
                                                                              4000.9
S5
       MODHU
                                                700059 WEST BENGAL
                                                                              5000.9
                          Pune
SQL> UPDATE SMAN_MAST SET SAL_AMT = SAL_AMT + 1000;
5 rows updated.
SQL> SELECT * FROM SMAN_MAST;
                                               PINCODE STATE
SALESM SALESMAN_NAME
                         CITY
                                                                             SAL_AMT
S1
       RAMU
                                                 700059 WEST BENGAL
                                                                              3000.9
                          Pune
S2
       UPAL
                          Pune
                                                 700002 MAHARASHTRA
                                                                              2000.9
       SHYAM
                                                900059 MAHARASHTRA
                                                                              4000.9
S3
                          Pune
                                                700078 UTTARPRADESH
                                                                              5000.9
SH
       JADU
                          Pune
S5
      MODHU
                          Pune
                                                700059 WEST BENGAL
                                                                              6000.9
SQL>
Create the following tables and insert the values then do the
queries for 5.2 employee:
emp no, name, dob, sex, address, salary
company: comp_no, name, address
works: emp_no, comp_no
CREATE TABLE EMPLOYEE (
EMP NO VARCHAR2(8) PRIMARY KEY CHECK (EMP NO LIKE 'E%'),
NAME VARCHAR2 (20) NOT NULL,
DOB DATE NOT NULL,
SEX CHAR(1) CHECK(SEX IN ('M', 'F')),
ADDRESS VARCHAR2 (20) NOT NULL,
SALARY NUMBER(8) NOT NULL);
```

```
SQL> CREATE TABLE EMPLOYEE (
     EMP_NO NUMBER PRIMARY KEY
     NAME VARCHAR2(20) NOT NULL,
     DOB DATE NOT NULL
     SEX CHAR(1) CHECK(SEX LIKE '[MF]'),
    ADDRESS VARCHAR2(20) NOT NULL,
SALARY NUMBER(8) NOT NULL
Table created.
SOL> DESC EMPLOYEE:
                                                                             Null?
                                                                                     Type
 Name
 EMP_NO
                                                                              NOT NULL NUMBER
 NAME
                                                                             NOT NULL VARCHAR2(20)
 DOB
                                                                             NOT NULL DATE
 SEX
                                                                                     CHAR(1)
                                                                             NOT NULL VARCHAR2(20)
 ADDRESS
                                                                             NOT NULL NUMBER(8)
 SALARY
SQL>
CREATE TABLE COMPANY (
COMP NO VARCHAR2(8) PRIMARY KEY CHECK (COMP NO LIKE 'C%'),
NAME VARCHAR2 (20) NOT NULL,
ADDRESS VARCHAR2 (20) NOT NULL);
SQL> CREATE TABLE COMPANY (
  2 COMP_NO NUMBER PRIMARY KEY,
3 NAME VARCHAR2(20) NOT NULL,
     ADDRESS VARCHAR2(20) NOT NULL
Table created.
 SQL> DESC COMPANY;
 Name
                                                                            Null?
                                                                                    Type
 COMP_NO
                                                                            NOT NULL NUMBER
                                                                            NOT NULL VARCHAR2(20)
 ADDRESS
                                                                            NOT NULL VARCHAR2(20)
SOL>
CREATE TABLE WORKS (
EMP NO VARCHAR2(8) NOT NULL, COMP NO VARCHAR2(8) NOT NULL,
CONSTRAINT FK1 FOREIGN KEY (EMP NO) REFERENCES EMPLOYEE (EMP NO) ON
DELETE CASCADE, CONSTRAINT FK2 FOREIGN KEY (COMP NO) REFERENCES
COMPANY (COMP NO) ON DELETE CASCADE);
SQL> CREATE TABLE WORKS (
  2 EMP_NO NUMBER,
    COMP_NO NUMBER
  CONSTRAINT FK1 FOREIGN KEY (EMP_NO) REFERENCES EMPLOYEE(EMP_NO) ON DELETE CASCADE,
CONSTRAINT FK2 FOREIGN KEY (COMP_NO) REFERENCES COMPANY(COMP_NO) ON DELETE CASCADE
  6);
Table created.
SOL> DESC WORKS:
                                                                         Null?
 Name
                                                                                 Type
 EMP NO
                                                                                 NUMBER
 COMP NO
                                                                                 NUMBER
SQL>
INSERT ALL
INTO EMPLOYEE
VALUES('E1', 'ARKA', TO DATE('21-10-2002', 'DD-MM-YYYY'), 'M', 'AC-13', 50000)
INTO EMPLOYEE
VALUES('E2', 'RAMU', TO DATE('10-02-2002', 'DD-MM-YYYY'), 'M', 'BD-13', 20000)
```

```
VALUES('E3','JOHN',TO DATE('02-06-2002','DD-MM-YYYY'),'M','EF-13',10000)
INTO EMPLOYEE
VALUES('E4', 'SIDD', TO DATE('11-12-2002', 'DD-MM-YYYY'), 'M', 'GD-13', 30000)
INTO EMPLOYEE
VALUES('E5', 'ROSE', TO DATE('01-09-2002', 'DD-MM-YYYY'), 'F', 'CC-13', 40000)
SELECT * FROM DUAL;
SQL> INSERT ALL
  2 INTO EMPLOYEE VALUES('E1','ARKA',TO_DATE('21-10-2002','DD-MM-YYYY'),'M','AC-13',50000)
3 INTO EMPLOYEE VALUES('E2','RAMU',TO_DATE('10-02-2002','DD-MM-YYYY'),'M','BD-13',20000)
4 INTO EMPLOYEE VALUES('E3','JOHN',TO_DATE('02-06-2002','DD-MM-YYYY'),'M','EF-13',10000)
5 INTO EMPLOYEE VALUES('E4','SIDD',TO_DATE('11-12-2002','DD-MM-YYYY'),'M','GD-13',30000)
6 INTO EMPLOYEE VALUES('E5','ROSE',TO_DATE('01-09-2002','DD-MM-YYYY'),'F','CC-13',40000)
  7 SELECT * FROM DUAL;
 5 rows created.
 SQL> SELECT * FROM EMPLOYEE;
 EMP_NO NAME
                              DOB S ADDRESS
                                                                    SALARY
                      21-OCT-02 M AC-13
          ARKA
                                                                     50000
 E1
                             10-FEB-02 M BD-13
02-JUN-02 M EF-13
 E2
          RAMU
                                                                     20000
          JOHN
                                                                     10000
 E3
                              11-DEC-02 M GD-13
 F4
          SIDD
                                                                     30000
                                                                      40000
          ROSE
                               01-SEP-02 F CC-13
 E5
 SQL>
       INIO COMPANA ANTOEZ (.CAGAGA. '. IECHNO INDIA. '.EL-II.)
         INTO COMPANY VALUES('C00005','TCS','CC-2')
         SELECT * FROM DUAL;
 5 rows created.
 SQL> SELECT * FROM COMPANY;
 COMP_NO NAME
                                               ADDRESS
            ABC
 C00001
                                               SD-21
 C00002 DEF
                                             OW-24
                                             EE-34
              CLIFFORD CORP
 C00003
              TECHNO INDIA
                                             EF-17
 C00004
            TCS
 C00005
                                               CC-2
 SQL>
INSERT ALL
INTO WORKS VALUES ('E1', 'C00001')
INTO WORKS VALUES ('E2', 'C00002')
INTO WORKS VALUES('E3', 'C00003')
INTO WORKS VALUES ('E4', 'C00004')
INTO WORKS VALUES ('E5', 'C00005')
SELECT * FROM DUAL;
 SQL> INSERT ALL
```

E name anastad

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INTO WORKS VALUES('E1','C00001')
INTO WORKS VALUES('E2','C00002')

INTO WORKS VALUES('E3','C00003')
INTO WORKS VALUES('E4','C00004')

INTO WORKS VALUES('E5', 'C00005')

SELECT * FROM DUAL;

INTO EMPLOYEE

- 1.List the employees who work for company 'C00002'
- SELECT * FROM EMPLOYEE E WHERE E.EMP_NO IN (SELECT EMP_NO FROM WORKS WHERE COMP NO = 'C00002');
- 2.List the employees who work for company 'C00004'
- SELECT * FROM EMPLOYEE E WHERE E.EMP_NO IN (SELECT EMP_NO FROM WORKS WHERE COMP NO = 'C00004');
- 3.List the employees who work for Clifford Corp
- SELECT * FROM EMPLOYEE E WHERE E.EMP_NO IN (
 SELECT EMP_NO FROM WORKS W WHERE W.COMP_NO IN (SELECT COMP_NO FROM COMPANY WHERE NAME = 'CLIFFORD CORP'));
- 4.List the employees whose name ends with 'a'
- SELECT NAME FROM EMPLOYEE WHERE NAME LIKE '%A';
- 5.List the employees born between 1999 and 2011
- SELECT NAME FROM EMPLOYEE WHERE EXTRACT(YEAR FROM DOB) BETWEEN '1999' AND '2011';

```
SQL> SELECT * FROM EMPLOYEE E WHERE E.EMP_NO IN (SELECT EMP_NO FROM WORKS WHERE COMP_NO = 'C00002');
EMP_NO NAME
                              DOB S ADDRESS
                                                                   SALARY
    RAMU
                             10-FEB-02 M BD-13
                                                                    20000
SQL> SELECT * FROM EMPLOYEE E WHERE E.EMP_NO IN (SELECT EMP_NO FROM WORKS WHERE COMP_NO = 'C00004');
                              DOB S ADDRESS
EMP_NO NAME
E4
                             11-DEC-02 M GD-13
                                                                    30000
SQL> SELECT * FROM EMPLOYEE E WHERE E.EMP_NO IN (
2 SELECT EMP_NO FROM WORKS W WHERE W.COMP_NO IN (SELECT COMP_NO FROM COMPANY WHERE NAME = 'CLIFFORD CORP')
3 );
EMP_NO NAME
                              DOB S ADDRESS
                                                                    SALARY
E3 JOHN
                             02-JUN-02 M EF-13
                                                                    10000
SQL> SELECT NAME FROM EMPLOYEE WHERE NAME LIKE '%A';
NAME
ARKA
SQL> SELECT NAME FROM EMPLOYEE WHERE EXTRACT(YEAR FROM DOB) BETWEEN '1999' AND '2011';
NAME
ARKA
RAMU
JOHN
SIDD
ROSE
SQL>
```