SWE1004 - (L 9 + L10)

Lab Sheet 4

Aggregate functions, Grouping and Sorting

Perform various data manipulation commands, aggregate functions and sorting concept on all created tables.

1. List total deposit from deposit.

```
SQL> SELECT SUM(AMOUNT)as TOTAL FROM DEPOSIT_1119;

     TOTAL
----------
     39500
```

2. List total loan from karolbagh branch

```
SQL> SELECT SUM(AMOUNT)as TOTAL_LOAN FROM BORROW_1119
  2  WHERE NAME='KAROLBAGH';

TOTAL_LOAN
----------
     18000
```

3. Give maximum loan from branch 'vice'.

```
SQL>  SELECT MAX(AMOUNT)as MAX_LOAN FROM BORROW_1119
  2   WHERE NAME='VICE';

  MAX_LOAN
----------
      8000
```

4. Count total number of customers

```
SQL> SELECT COUNT(CNAME) FROM CUSTOMERS_1119;

COUNT(CNAME)
-----------
          5
```

5. Count total number of customer's cities.

```
SQL> SELECT COUNT(CITY) FROM CUSTOMERS_1119;

COUNT(CITY)
----------
          5
```

6. Display the highest deposit amount of Andheri branch

```
SQL> SELECT MAX(AMOUNT)as HIGHEST_DEPOSIT FROM DEPOSIT_1119
  2  WHERE BNAME='andheri';

HIGHEST_DEPOSIT
---------------
           8000
```

7. Count the number of customers with more than one loan at different branches

```
COUNT(CNAME) CNAME
------------ ---------------
           4 JOHN

SQL>
```

8. Display the customer detail with highest deposit amount.

```
A_NO  CNAME           BNAME            AMOUNT A_DATE
----- --------------- ---------------- ------ ---------
104   vijay           andheri            8000 17-SEP-06
```

9. Update the city of MADHURI from NAGPUR to CHENNAI.

```
  2  set city='CHENNAI' where cname='MADHURI';

1 row updated
```

10. Display the total deposit amount for each branch

```
BNAME       SUM(AMOUNT)
----------  -----------
andheri           22000
villeparle         6500
Borivali           5500
virar              5000
dadar              7500
```

11. Display Branch wise deposit amount in descending order

```
BNAME           AMOUNT
----------  ----------
andheri           8000
dadar             7500
andheri           7000
andheri           7000
villeparle        6500
Borivali          5500
virar             5000

7 rows selected.
```

12. Display the total sum of deposits of the customers if they have deposit at more than one branch.

DEPOSIT (A_NO, CNAME, BNAME, AMOUNT, ADATE)

BORROW (LOANNO, CNAME, BNAME, AMOUNT)

CUSTOMERS (CNAME, CITY)

CREATE TABLE **DEPOSIT**(A_NO VARCHAR2(5), CNAME VARCHAR2(15), BNAME VARCHAR2(10), AMOUNT NUMBER(7,2),A_DATE DATE);

CREATE TABLE **BORROW** (LOANNO VARCHAR2(5), CNAME VARCHAR2(15), NAME VARCHAR2(10), AMOUNT NUMBER (7, 2));

CREATE TABLE **CUSTOMERS** (CNAME VARCHAR2(19), CITY VARCHAR2(18));

DEPOSIT:
INSERT INTO DEPOS_21mia1076 VALUES ('101','Anil','andheri',7000,'01-jan-06');

INSERT INTO DEPOS_21mia1076 VALUES ('102','sunil','virar',5000,'15-jul-06');

INSERT INTO DEPOS_21mia1076 VALUES ('103', 'jay','villeparle',6500,'12-mar-06');

INSERT INTO DEPOS_21mia1076 VALUES ('104','vijay','andheri', 8000,'17-sep-06');

INSERT INTO DEPOSIT VALUES ('105','keyur','dadar', 7500,'19-nov-06');

INSERT INTO DEPOSIT VALUES ('106','Mayor','Borivali', 5500,'21-dec-06');

INSERT INTO DEPOSIT VALUES ('101','Anil','andheri',7000,'01-jan-06');

BORROW:
INSERT INTO BORROW VALUES ('1001','VIJAY','ANDHERI',5000);

INSERT INTO BORROW VALUES ('1002','HARISH',' KAROLBAGH',9000);

INSERT INTO BORROW VALUES ('1003','PETER','VICE',4000);

INSERT INTO BORROW VALUES ('1004','JOHN','VICE',8000);

INSERT INTO BORROW VALUES ('1004','JOHN','KAROLBAGH',9000);

INSERT INTO BORROW VALUES ('1001','VIJAY','ANDHERI',5000);

INSERT INTO BORROW VALUES ('1002','HARISH',' KAROLBAGH',9000);

INSERT INTO BORROW VALUES ('1003','PETER','VICE',4000);

INSERT INTO BORROW VALUES ('1004','JOHN','VICE',8000);

INSERT INTO BORROW VALUES ('1004','JOHN','KAROLBAGH',9000);

CUSTOMERS:

INSERT INTO CUSTOMERS VALUES ('ANIL','CALCUTTA');

INSERT INTO CUSTOMERS VALUES ('SUNIL','DELHI');

INSERT INTO CUSTOMERS VALUES ('MEHUL','BARODA');

INSERT INTO CUSTOMERS VALUES ('MANDAR','PATNA') ;

INSERT INTO CUSTOMERS VALUES ('MADHURI','NAGPUR');

INSERT INTO CUSTOMERS VALUES ('PRAMOD','NAGPUR');

INSERT INTO CUSTOMERS VALUES ('SANDIP','SURAT');

INSERT INTO CUSTOMERS VALUES ('SHIVANI','BOMBAY');

INSERT INTO CUSTOMERS VALUES ('KRANTI','BOMBAY');

INSERT INTO CUSTOMERS VALUES ('NAREN','BOMBAY');

Important guidelines to be followed

- Every table created should have the last four digits of your registration number **together with the table name(eg:emp_1021)**
- Insert **records** for each table as per the requirements of the query.
- No query must return an answer **"No rows found"**
- *Upload a **PDF** document with*
    - *the screenshots of tables created, Records of the tables,*
    - *SQL queries with answers*