ASSIGNMENT 3

Q1. Retrieve all the records from DEPOSIT(roll number) where amount > 1000 and arrange the customer name in ascending order(ques1) and in descending order(ques2)

```
SQL> SELECT * FROM DEPOSIT_2005017
  2  WHERE AMOUNT > 1000
  3  ORDER BY CNAME ASC;

ACTNO CNAME                  BNAME                    AMOUNT ADATE
----- -------------------- -------------------- ---------- ---------
103   MADHURI                CHANDNI                    1200 17-DEC-95
104   PRAMOD                 MGROAD                     3000 27-MAR-96
102   RAHUL                  KAROLBAGH                  3500 17-NOV-95
105   SANDIP                 KAROLBAGH                  2000 31-MAR-96
101   SUNIL                  AJNI                       5000 04-JAN-96
```

Q2. Retrieve customer details from BORROW(roll number) table where the third character of the customer name is either 'A' or 'D'.

```
SQL> SELECT * FROM BORROW_2005017
  2  WHERE CNAME LIKE '__A%' OR CNAME LIKE '__D%'
  3  ORDER BY CNAME DESC;
```

Q3. Retrieve all the records from the table BORROW(roll number) where amount is not between 2000 and 8000.

```
SQL> SELECT * FROM BORROW_2005017
  2  WHERE AMOUNT NOT BETWEEN 2000 AND 8000;

LOANN CNAME                  BNAME                    AMOUNT
----- -------------------- -------------------- ----------
201   ANIL                   VRCE                       1000
```

Q4. Find out the unique records from the table DEPOSIT(roll number).

```
SQL> SELECT DISTINCT * FROM DEPOSIT_2005017;

ACTNO CNAME                  BNAME                    AMOUNT ADATE
----- -------------------- -------------------- ---------- ---------
103   MADHURI                CHANDNI                    1200 17-DEC-95
100   ANIL                   VRCE                       1000 01-MAR-95
102   RAHUL                  KAROLBAGH                  3500 17-NOV-95
104   PRAMOD                 MGROAD                     3000 27-MAR-96
101   SUNIL                  AJNI                       5000 04-JAN-96
105   SANDIP                 KAROLBAGH                  2000 31-MAR-96
```

Q5. Update the amount of all depositors in deposit table by giving them 10% interest (i.e. amount=amount * 0.1) where branch is VRCE.

```
SQL> UPDATE DEPOSIT_2005017 SET AMOUNT=(AMOUNT+AMOUNT*0.1)
  2  WHERE BNAME='VRCE';

1 row updated.

SQL> SELECT * FROM DEPOSIT_2005017 WHERE BNAME='VRCE';

ACTNO CNAME                 BNAME                     AMOUNT ADATE
----- ------------------    ------------------    ---------- ---------
100   ANIL                  VRCE                        1100 01-MAR-95
```

Q6. Update the amount of all depositors in deposit table by giving them 10% interest where branch is VRCE and customer name ANIL.

```
SQL> SELECT * FROM DEPOSIT_2005017 WHERE BNAME='VRCE' AND CNAME='ANIL';

ACTNO CNAME                 BNAME                     AMOUNT ADATE
----- ------------------    ------------------    ---------- ---------
100   ANIL                  VRCE                        1210 01-MAR-95
```

Q7. Create table STUIDENT and insert the following data :-

FIELD	DATA TYPE	NAME	ROLLNO	BRANCH	CITY
NAME	VARCHAR(20)	VIJAYA	150	CSE	CHENNAI
ROLLNO	NUMBER(10)	SITA	202	ETC	KOLKATA
BRANCH	VARCHAR2(20)	RAVI	300	EEE	DELHI
CITY	VARCHAR2(20)	BASU	165	ETC	CHENNAI
		RASMI	107	ETC	RKL
		KARAN	111	CSE	CTC
		REKHA	117	BME	BBSR

```
SQL> CREATE TABLE STUDENT_2005017(NAME VARCHAR(20), ROLLNO NUMBER(10), BRANCH VARCHA
R(20), CITY VARCHAR(20));

Table created.
```

```
SQL> INSERT INTO STUDENT_2005017 VALUES('VIJAYA', 150, 'CSE', 'CHENNAI');

1 row created.

SQL> INSERT INTO STUDENT_2005017 VALUES('SITA', 202, 'ETC', 'KOLKATA');

1 row created.

SQL> INSERT INTO STUDENT_2005017 VALUES('RAVI', 300, 'EEE', 'DELHI');

1 row created.

SQL> INSERT INTO STUDENT_2005017 VALUES('BASU', 165, 'ETC', 'CHENNAI');

1 row created.

SQL> INSERT INTO STUDENT_2005017 VALUES('RASMI', 107, 'ETC', 'RKL');

1 row created.

SQL> INSERT INTO STUDENT_2005017 VALUES('KARAN', 111, 'CSE', 'CTC');

1 row created.

SQL> INSERT INTO STUDENT_2005017 VALUES('REKHA', 117, 'BME', 'BBSR');

1 row created.
```

```
SQL> SELECT * FROM STUDENT_2005017;

NAME                      ROLLNO BRANCH                CITY
-------------------- ---------- -------------------- -----------
VIJAYA                       150 CSE                  CHENNAI
SITA                         202 ETC                  KOLKATA
RAVI                         300 EEE                  DELHI
BASU                         165 ETC                  CHENNAI
RASMI                        107 ETC                  RKL
KARAN                        111 CSE                  CTC
REKHA                        117 BME                  BBSR

7 rows selected.
```

Q8. Count the number of students of each department.

```
SQL> SELECT BRANCH, COUNT(*) FROM STUDENT_2005017 GROUP BY BRANCH;

BRANCH                 COUNT(*)
-------------------- ----------
EEE                           1
ETC                           3
CSE                           2
BME                           1
```

Q9. Count the number of students of each department where the department name starts with 'E'.

```
SQL> SELECT BRANCH, COUNT(*) FROM STUDENT_2005017
  2  GROUP BY BRANCH
  3  HAVING BRANCH LIKE 'E%';

BRANCH                    COUNT(*)
-------------------- ----------
EEE                          1
ETC                          3
```

Q10. Add a field called MARKS to the table STUDENT which can hold a number upto 8 digit length.

```
SQL> ALTER TABLE STUDENT_2005017 ADD(MARKS NUMBER(8));

Table altered.

SQL> DESC STUDENT_2005017;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------
 NAME                                               VARCHAR2(20)
 ROLLNO                                             NUMBER(10)
 BRANCH                                             VARCHAR2(20)
 CITY                                               VARCHAR2(20)
 MARKS                                              NUMBER(8)
```

Q11. Modify the field :"NAME" of the table STUDENT to hold a maximum of 25 character.

```
SQL> ALTER TABLE STUDENT_2005017 MODIFY(NAME VARCHAR(25));

Table altered.

SQL> DESC STUDENT_2005017;
 Name                                      Null?    Type
 ----------------------------------------- -------- ----------------
 NAME                                               VARCHAR2(25)
 ROLLNO                                             NUMBER(10)
 BRANCH                                             VARCHAR2(20)
 CITY                                               VARCHAR2(20)
 MARKS                                              NUMBER(8)
```

Q12. Delete all rows from the table STUDENT where branch is ETC.

```
SQL> DELETE FROM STUDENT_2005017 WHERE BRANCH='ETC';

3 rows deleted.

SQL> SELECT * FROM STUDENT_2005017;

NAME                            ROLLNO BRANCH               CITY
------------------------- ---------- -------------------- ---------------
     MARKS
----------
VIJAYA                             150 CSE                  CHENNAI


RAVI                               300 EEE                  DELHI


KARAN                              111 CSE                  CTC



NAME                            ROLLNO BRANCH               CITY
------------------------- ---------- -------------------- ---------------
     MARKS
----------
REKHA                              117 BME                  BBSR
```

Q13. Rename the table STUDENT to STUDINFORMATION.

```
SQL> RENAME STUDENT_2005017 TO STUDINFORMATION_2005017;

Table renamed.
```

Q14. Delete all the data part from the table STUDENT.

```
SQL> TRUNCATE TABLE STUDINFORMATION_2005017;

Table truncated.

SQL> DESC STUDINFORMATION_2005017;
 Name                                      Null?    Type
 ----------------------------------------- -------- --------------------
 NAME                                               VARCHAR2(25)
 ROLLNO                                             NUMBER(10)
 BRANCH                                             VARCHAR2(20)
 CITY                                               VARCHAR2(20)
 MARKS                                              NUMBER(8)

SQL> SELECT * FROM STUDINFORMATION_2005017;

no rows selected
```

Q15. Destroy the table STUDENT.

```
SQL> DROP TABLE STUDINFORMATION_2005017;

Table dropped.

SQL> SELECT TABLE_NAME FROM USER_TABLES;

TABLE_NAME
-----------------------------
DEPOSIT_2005017
BRANCH_2005017
CUSTOMER_2005017
BORROW_2005017
```