Q3)CUSTOMER TABLE

Create a table customer with the following fields: customerid, name, branch, accno, balance. Customerid is the primary key. In all other fields, we cannot enter null value. The balance should not be less than 500.

```
SQL> create table customer(customerid int primary key,name varchar(25) NOT NULL,branch varchar(25) NOT NULL ,accno int NOT NULL, balance int NOT NULL);

Table created.

SQL> alter table customer
  2  add constraint balance check(balance>=500);

Table altered.

SQL> insert into customer values(1,'SUSAN','KOTTAYAM',11111,55000);

1 row created.

SQL> insert into customer values(1,'SUMMAYA','KOLLAM',22222,60000);
insert into customer values(1,'SUMMAYA','KOLLAM',22222,60000)
*
ERROR at line 1:
ORA-00001: unique constraint (SUSANA.SYS_C0044852) violated


SQL> insert into customer values(2,'SUMMAYA','KOLLAM',22222,60000);

1 row created.

SQL> insert into customer values(3,'STEFFY','KUMILY',33333,23000);

1 row created.

SQL> insert into customer values(4,'SREE','KANNUR',44444,34000);

1 row created.

SQL> insert into customer values(5,'ANNU','KANNUR',55555,70000);

1 row created.
```

```
SQL> insert into customer values(6,'ALU','KOCHI',66666,2500);

1 row created.

SQL> select * from customer;

CUSTOMERID NAME                      BRANCH                      ACCNO    BALANCE
---------- ------------------------- ------------------------- ---------- ----------
         1 SUSAN                     KOTTAYAM                     11111      55000
         2 SUMMAYA                   KOLLAM                       22222      60000
         3 STEFFY                    KUMILY                       33333      23000
         4 SREE                      KANNUR                       44444      34000
         5 ANNU                      KANNUR                       55555      70000
         6 ALU                       KOCHI                        66666       2500

6 rows selected.
```

a. Find out the details of all customers whose balance is between 2000 and 3000.

```
SQL> select * from customer where balance between 2000 and 3000;

CUSTOMERID NAME                      BRANCH                      ACCNO    BALANCE
---------- ------------------------- ------------------------- ---------- ----------
         6 ALU                       KOCHI                        66666       2500
```

b. Show all branches of the bank (duplicates eliminated).

```
SQL> select  distinct branch  from customer;

BRANCH
-------------------------
KOCHI
KOTTAYAM
KOLLAM
KANNUR
KUMILY
```

c. Find out the details of all customers whose branch is kottayam and balance>5000.

```
SQL> select * from customer where branch='KOTTAYAM' and balance>5000;

CUSTOMERID NAME                      BRANCH                        ACCNO    BALANCE
---------- ------------------------- ------------------------- ---------- ----------
         1 SUSAN                     KOTTAYAM                      11111      55000
```

d. Show the details of all customers whose name start with A.

```
SQL> select * from customer where name like 'A%';

CUSTOMERID NAME                      BRANCH                        ACCNO    BALANCE
---------- ------------------------- ------------------------- ---------- ----------
         5 ANNU                      KANNUR                        55555      70000
         6 ALU                       KOCHI                         66666       2500
```

e. Retrieve the branch name values as city.

```
SQL> select  branch  as city from customer;

CITY
-------------------------
KOTTAYAM
KOLLAM
KUMILY
KANNUR
KANNUR
KOCHI

6 rows selected.
```

f. Find the total balance of the bank.

```
SQL> select sum(balance) as totalbalance  from customer;

TOTALBALANCE
------------
      244500
```

g. Find the average balance of the bank.

```
SQL> select avg(balance) as averagebalance  from customer;

AVERAGEBALANCE
--------------
         40750
```

h. Find the max value for balance.

```
SQL> select max(balance) as maximumbalance  from customer;

MAXIMUMBALANCE
--------------
         70000
```

i. Find the min balance of the bank.

```
SQL> select min(balance) as minimumbalance  from customer;

MINIMUMBALANCE
--------------
          2500
```

j. Count number of records in the table.

```
SQL> select count(customerid) as numberofrecords  from customer;

NUMBEROFRECORDS
---------------
              6
```

k. Modify the size of name in the table to 50

```
SQL> alter table customer modify name  varchar(50);

Table altered.
```

l. Add a new column address t the table with data type varchar(10) and insert values into it.

```
SQL> alter table customer add address varchar(10);

Table altered.
```

```
SQL> update  customer
  2  set address='ABCD'
  3  where customerid=1;

1 row updated.

SQL> update  customer
  2  set adress='EFGHD'
  3  where customerid=2;
set adress='EFGHD'
    *
ERROR at line 2:
ORA-00904: "ADRESS": invalic


SQL> update  customer
  2  set address='EFGHD'
  3  where customerid=2;

1 row updated.

SQL> update  customer
  2  set address='ERTYU'
  3  where customerid=3;

1 row updated.

SQL> update  customer
  2  set address='ASDF'
  3  where customerid=4;

1 row updated.

SQL> update  customer
  2  set address='QWERT'
  3  where customerid=5;

1 row updated.
```

```
SQL> update  customer
  2  set address='HJKL'
  3  where customerid=6;

1 row updated.

SQL> select * from customer ;

CUSTOMERID NAME                                               BRANCH                 ACCNO    BALANCE ADDRESS
---------- -------------------------------------------------- ---------------------- ---------- ---------- ----------
         1 SUSAN                                              KOTTAYAM               11111      55000 ABCD
         2 SUMMAYA                                            KOLLAM                 22222      60000 EFGHD
         3 STEFFY                                             KUMILY                 33333      23000 ERTYU
         4 SREE                                               KANNUR                 44444      34000 ASDF
         5 ANNU                                               KANNUR                 55555      70000 QWERT
         6 ALU                                                KOCHI                  66666       2500 HJKL

6 rows selected.
```