

AIM:

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(30) not null, branch varchar(20) not null, accno int not null, balance int not null check(balance >= 500));
```

```
SQL> select * from customer;
```

CUSTOMERID	NAME	BRANCH	ACCNO	BALANCE
69	Vivek Nair	Allapuzha	694269	1000000
70	Zameel Hassan	Kottayam	42180	50000
61	Sumayya Maheen	Kottayam	67280	2500
71	Ablin Joseph	Idukki	98180	2800
40	Prinu Nair	Kollam	89121	6000

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

Ans:

```
SQL> Select * from customer where balance BETWEEN 2000 AND 3000;
```

CUSTOMERID	NAME	BRANCH	ACCNO	BALANCE
61	Sumayya Maheen	Kottayam	67280	2500
71	Ablin Joseph	Idukki	98180	2800

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

Ans:

```
SQL> SELECT DISTINCT branch FROM customer;
```

```
BRANCH
-----
Kottayam
Allapuzha
Idukki
Kollam
```

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

Ans;

```
SQL> SELECT * FROM customer WHERE branch='Kottayam'AND balance>5000;
```

CUSTOMERID	NAME	BRANCH	ACCNO	BALANCE
70	Zameel Hassan	Kottayam	42180	50000

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

Ans;

```
SQL> SELECT * FROM customer WHERE name like 'A%';
```

CUSTOMERID	NAME	BRANCH	ACCNO	BALANCE
71	Ablin Joseph	Idukki	98180	2800

e. Retrieve the branch name values as city.

Ans:

```
SQL> SELECT branch AS City FROM customer;
```

CITY
Allapuzha
Kottayam
Kottayam
Idukki
Kollam

f. Find the total balance of the bank

Ans:

```
SQL> SELECT SUM(BALANCE) FROM CUSTOMER;
```

SUM(BALANCE)
1061300

g. Find the average balance of the bank

Ans:

```
SQL> SELECT AVG(BALANCE) FROM CUSTOMER;  
  
AVG(BALANCE)  
-----  
          212260
```

h. Find the max value for balance.

Ans:

```
SQL> SELECT MAX(BALANCE) FROM CUSTOMER;  
  
MAX(BALANCE)  
-----  
        1000000
```

i. Find the min balance of the bank.

Ans:

```
SQL> SELECT MIN(BALANCE) FROM CUSTOMER;  
  
MIN(BALANCE)  
-----  
          2500
```

j. Count number of records in the table.

Ans;

```
SQL> SELECT COUNT(*) FROM CUSTOMER;  
  
COUNT(*)  
-----  
          5
```

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

Ans:

```
SQL> ALTER TABLE customer MODIFY name varchar(50);  
Table altered.
```

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

Ans:

```
SQL> UPDATE customer SET address='MG Road' WHERE customerid=69;  
1 row updated.
```