TASK 1

1. List all the values stored in the CITIZEN table.

```
CREATE DATABASE bangladesh;
CREATE TABLE citizen(
    C_ID INT,
    C_NAME VARCHAR(50),
    C_Home VARCHAR(50),
    AGE INT,
    OCCUPATION VARCHAR(20),
    GENDER VARCHAR(8),
    SALARY BIGINT
);
INSERT INTO citizen(
    C_ID,
    C_NAME,
    C_Home,
    AGE,
    OCCUPATION,
    GENDER,
    SALARY
)
VALUES(
    1,
    'Alice',
    'Dhaka',
    25,
```

```
'Teacher',
     'Male',
     50000
),(
     2,
     'Bob',
     'Dhaka',
     56,
     'Service',
     'Male',
     60000
),(
     3,
     'Charlie',
     'Ctg',
     71,
     'Retired',
     'Male',
     10000
),(
     4,
     'Erin',
     'Ctg',
     13,
     'Student',
     'Female',
     500
),(
     5,
```

```
'Dave',
     'Dhaka',
     45,
     'Service',
     'Male',
     40000
),(
     6,
     'Faythe',
     'Gajipur',
     54,
     'Doctor',
     'Female',
     55000
),(
     7,
     'Grace',
     'Gajipur',
     65,
     'Musician',
     'Female',
     5000
),(
     8,
     'Ivan',
     'Dhaka',
     56,
     'Engineer',
     'Male',
```

```
60000
),(
     9,
     'Frank',
     'Ctg',
     23,
     'Student',
     'Male',
     1000
),(
     10,
     'Micheal',
     'Comilla',
     32,
     'Teacher',
     'Male',
     45000
),(
     11,
     'Niaj',
     'Comilla',
     51,
     'Farmer',
     'Male',
     20000
),(
     12,
     'Heidi',
```

'Khulna',

```
15,
     'Student',
     'Female',
     1500
),(
     13,
     'Ted',
     'Ctg',
     25,
     'Business',
     'Male',
     100000
),(
     14,
     'Walter',
     'Comilla',
     52,
     'Doctor',
     'Male',
     70000
),(
     15,
     'Victor',
     'Gajipur',
     53,
     'Teacher',
     'Male',
     50000
```

),(

```
16,
     'Judy',
     'Dhaka',
     35,
     'Musician',
     'Female',
     50000
),(
     17,
     'Pat',
     'Khulna',
     43,
     'Teacher',
     'Male',
     50000
),(
     18,
     'Olivia',
     'Khulna',
     34,
     'Service',
     'Female',
     45000
),(
     19,
     'Trent',
     'Ctg',
     16,
     'Student',
```

```
'Male',
     500
),(
     20,
     'Peggy',
     'Comilla',
     32,
     'Business',
     'Female',
     120000
),(
     21,
     'Wendy',
     'Ctg',
     25,
     'Musician',
     'Female',
     100000
),(
     22,
     'Oscar',
     'Gajipur',
     14,
     'Student',
     'Male',
     400
),(
     23,
     'Mallet',
```

```
'Dhaka',
25,
'Engineer',
'Male',
50000
```

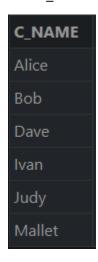
| C_ID | C_NAME | C_Home | AGE | OCCUPATION | GENDER | SALARY |
|------|---------|---------|-----|------------|--------|--------|
| 1 | Alice | Dhaka | 25 | Teacher | Male | 50000 |
| 2 | Bob | Dhaka | 56 | Service | Male | 60000 |
| 3 | Charlie | Ctg | 71 | Retired | Male | 10000 |
| 4 | Erin | Ctg | 13 | Student | Female | 500 |
| 5 | Dave | Dhaka | 45 | Service | Male | 40000 |
| 6 | Faythe | Gajipur | 54 | Doctor | Female | 55000 |
| 7 | Grace | Gajipur | 65 | Musician | Female | 5000 |
| 8 | Ivan | Dhaka | 56 | Engineer | Male | 60000 |
| 9 | Frank | Ctg | 23 | Student | Male | 1000 |
| 10 | Micheal | Comilla | 32 | Teacher | Male | 45000 |
| 11 | Niaj | Comilla | 51 | Farmer | Male | 20000 |
| 12 | Heidi | Khulna | 15 | Student | Female | 1500 |
| 13 | Ted | Ctg | 25 | Business | Male | 100000 |
| 14 | Walter | Comilla | 52 | Doctor | Male | 70000 |
| 15 | Victor | Gajipur | 53 | Teacher | Male | 50000 |
| 16 | Judy | Dhaka | 35 | Musician | Female | 50000 |
| 17 | Pat | Khulna | 43 | Teacher | Male | 50000 |
| 18 | Olivia | Khulna | 34 | Service | Female | 45000 |
| 19 | Trent | Ctg | 16 | Student | Male | 500 |
| 20 | Peggy | Comilla | 32 | Business | Female | 120000 |
| 21 | Wendy | Ctg | 25 | Musician | Female | 100000 |
| 22 | Oscar | Gajipur | 14 | Student | Male | 400 |
| 23 | Mallet | Dhaka | 25 | Engineer | Male | 50000 |

2. Show the NAME of the persons who are living in 'Dhaka'.

SELECT

C_NAME

FROM citizen WHERE C_Home = 'Dhaka';



3. Show only the C NAME, AGE and OCCUPATION from the table.

SELECT

 C_NAME ,

AGE,

OCCUPATION

FROM

Citizen

| C_NAME | AGE | OCCUPATION |
|---------|-----|------------|
| Alice | 25 | Teacher |
| Bob | 56 | Service |
| Charlie | 71 | Retired |
| Erin | 13 | Student |
| Dave | 45 | Service |
| Faythe | 54 | Doctor |
| Grace | 65 | Musician |
| Ivan | 56 | Engineer |
| Frank | 23 | Student |
| Micheal | 32 | Teacher |
| Niaj | 51 | Farmer |
| Heidi | 15 | Student |
| Ted | 25 | Business |
| Walter | 52 | Doctor |
| Victor | 53 | Teacher |
| Judy | 35 | Musician |
| Pat | 43 | Teacher |
| Olivia | 34 | Service |
| Trent | 16 | Student |
| Peggy | 32 | Business |
| Wendy | 25 | Musician |
| Oscar | 14 | Student |
| Mallet | 25 | Engineer |

4. Show only the C NAME, AGE and OCCUPATION from the table.

SELECT

C_ID,

C_NAME,

C_Home,

AGE,

OCCUPATION,

GENDER,

SALARY

FROM

citizen

WHERE

SALARY >= 50000

| C_ID | C_NAME | C_Home | AGE | OCCUPATION | GENDER | SALARY |
|------|--------|---------|-----|------------|--------|--------|
| 1 | Alice | Dhaka | 25 | Teacher | Male | 50000 |
| 2 | Bob | Dhaka | 56 | Service | Male | 60000 |
| 6 | Faythe | Gajipur | 54 | Doctor | Female | 55000 |
| 8 | Ivan | Dhaka | 56 | Engineer | Male | 60000 |
| 13 | Ted | Ctg | 25 | Business | Male | 100000 |
| 14 | Walter | Comilla | 52 | Doctor | Male | 70000 |
| 15 | Victor | Gajipur | 53 | Teacher | Male | 50000 |
| 16 | Judy | Dhaka | 35 | Musician | Female | 50000 |
| 17 | Pat | Khulna | 43 | Teacher | Male | 50000 |
| 20 | Peggy | Comilla | 32 | Business | Female | 120000 |
| 21 | Wendy | Ctg | 25 | Musician | Female | 100000 |
| 23 | Mallet | Dhaka | 25 | Engineer | Male | 50000 |

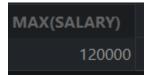
5. What is the maximum salary?

SELECT

MAX(SALARY)

FROM

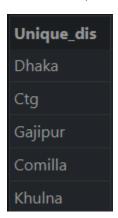
Citizen



6. Make a list of all the distinct C HOME values in the tables. Rename the output column as Unique District.

SELECT DISTINCT C_Home AS Unique_dis

FROM citizen;



7. What is the average age of the students?

SELECT AVG(Age)

FROM citizen

WHERE Occupation = 'Student';



8. Make an ordered list of engineers according to the salary.

SELECT * FROM citizen

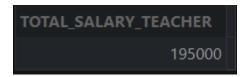
WHERE Occupation = 'Engineer'

ORDER BY Salary;

| C_ID | C_NAME | C_Home | AGE | OCCUPATION | GENDER | SALARY |
|------|--------|--------|-----|------------|--------|--------|
| 23 | Mallet | Dhaka | 25 | Engineer | Male | 50000 |
| 8 | Ivan | Dhaka | 56 | Engineer | Male | 60000 |

9. What is the total income of all the teachers listed in the table?

SELECT SUM(Salary) AS TOTAL_SALARY_TEACHER FROM citizen WHERE Occupation = 'Teacher';



10. Who is the most earning student?[also write using Nested Query

SELECT C_Name, Occupation

FROM citizen

WHERE Occupation = 'Student'

AND SALARY = (

SELECT MAX(Salary)

FROM citizen

WHERE Occupation = 'Student'

);

| C_Name | Occupation |
|--------|------------|
| Heidi | Student |

11. Which female person has the least income?[also write using Nested Query]

```
SELECT C_Name, Salary

FROM citizen

WHERE Gender = 'Female'

AND SALARY = (

SELECT MIN(Salary)

FROM citizen

WHERE Gender = 'Female'

);

C_Name Salary

Erin 500
```

TASK 2:

```
CREATE TABLE Workers(

wrk_name VARCHAR(20) PRIMARY KEY,

road INT,

city VARCHAR(20)

); CREATE TABLE Employment(

wrk_name VARCHAR(20) PRIMARY KEY,

company_name VARCHAR(20),

salary BIGINT

); CREATE TABLE Company(

company_name VARCHAR(20) PRIMARY KEY,

city VARCHAR(20)

); CREATE TABLE Management(

wrk_name VARCHAR(20) PRIMARY KEY,

manager_name VARCHAR(20)
```

```
*--insert value into table---*

INSERT INTO company

VALUES('B K Corporation', 'New York'),('Qujjhotika Bank', 'Los Angeles');

INSERT INTO employment

VALUES('Alice', 'B K Corporation', 80000),('Bob', 'Qujjhotika Bank', 90000),('Carol', 'B K Corporation', 75000),('Davin', 'Qujjhotika Bank', 85000),('Emily', 'B K Corporation', 82000);

INSERT INTO management

VALUES('Alice', 'Abul'),('Bob', 'Abul'),('Carol', 'Abul'),('Davin', 'Abul'),('Emily', 'Abul');

INSERT INTO workers

VALUES('Alice', 01, 'New York'),('Bob', 02, 'Los Angeles'),('Carol', 03, 'Chicago'),('Davin', 04, 'Boston'),('Emily', 05, 'italy');
```