

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';

C_NAME
Alice
Bob
Dave
Ivan
Judy
Mallet

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
```

MAX(SALARY)
120000

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;
```

Unique_dis
Dhaka
Ctg
Gajipur
Comilla
Khulna

7. What is the average age of the students?

```
SELECT AVG(Age)  
FROM citizen  
WHERE Occupation = 'Student';
```

AVG(Age)
16.2000

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';
```

TOTAL_SALARY_TEACHER
195000

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');