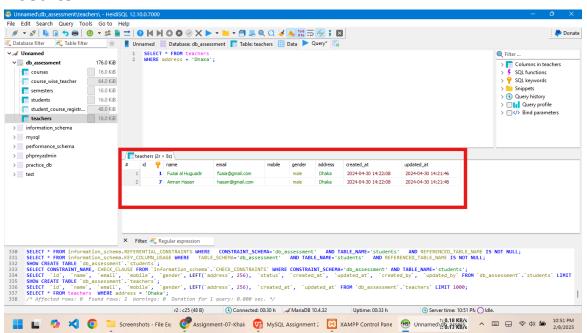# Assignment - 07

Submitted by Khairul Basar

1. Inserted the provided data into the respective tables and executed given query :

Query 1:
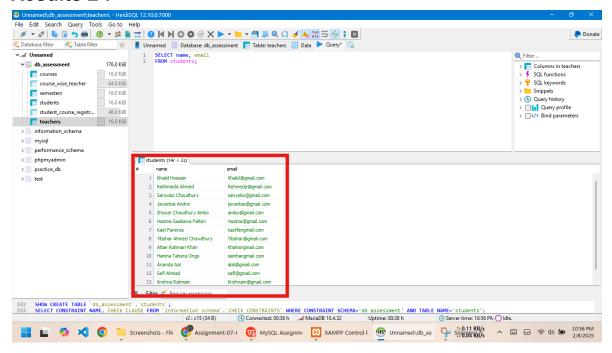
```sql
SELECT * FROM teachers
WHERE address = 'Dhaka';
```

Results 1 :

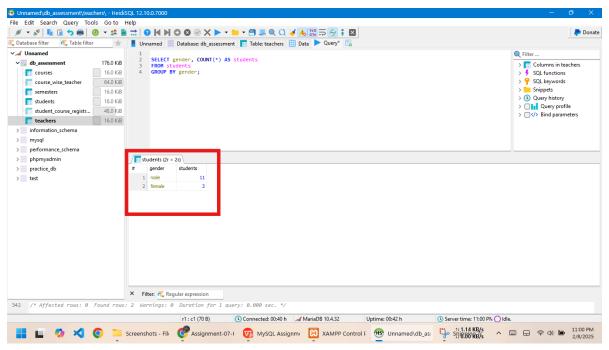*Query 2 :*

```sql
SELECT name, email
FROM students;
```

Results 2 :

Query 3:

```sql
SELECT gender, COUNT(*) AS students
FROM students
GROUP BY gender;
```
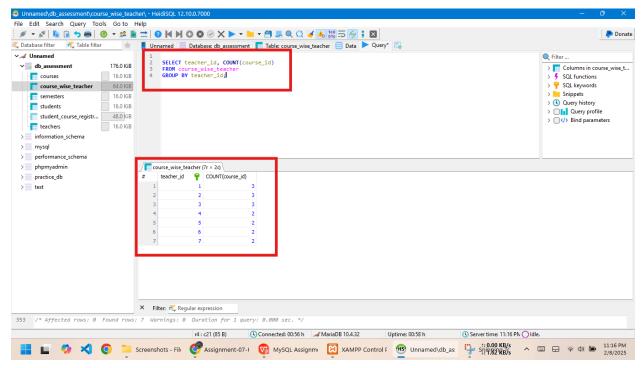
Results 3:

2. Run the provided queries

Task 1 Query :

```sql
SELECT teacher_id, COUNT(course_id)
FROM course_wise_teacher
GROUP BY teacher_id;
```
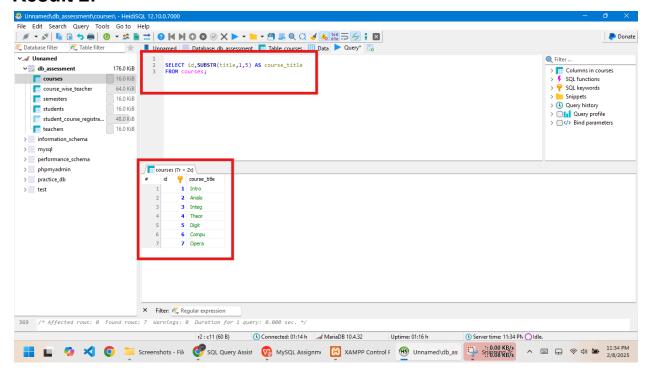
Results 1 :

Task 2 Query :

```sql
SELECT id,SUBSTR(title,1,5) AS course_title
FROM courses;
```
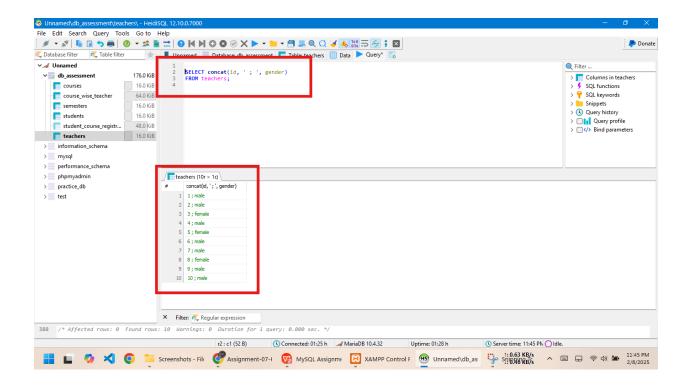
Result 2:

Task 3 Query:

```sql
SELECT concat(id, ' ; ', gender)
FROM teachers;
```
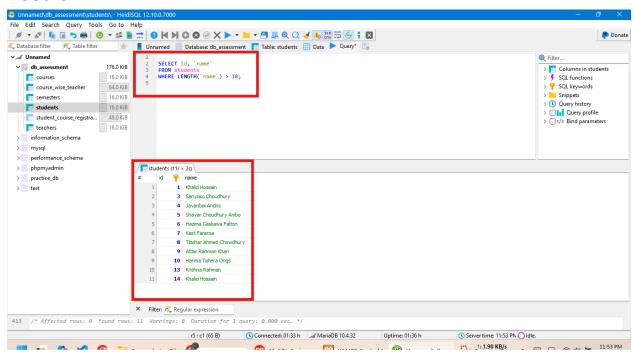
Result 3 :

Task 4 Query :

```sql
SELECT id, `name`
FROM students
WHERE LENGTH(`name`) > 10;
```
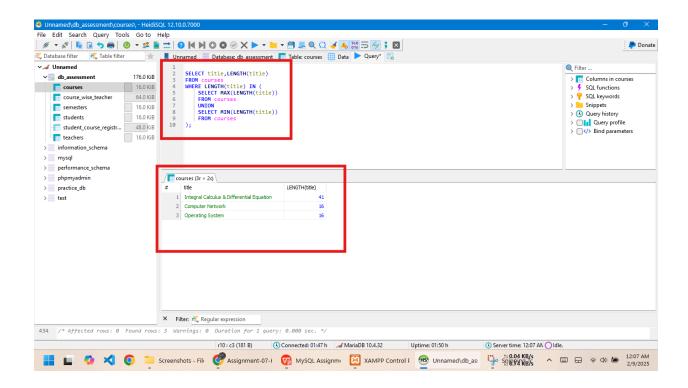
Result 4 :

Task 5 Query :

```sql
SELECT title,LENGTH(title)
FROM courses
WHERE LENGTH(title) IN (
    SELECT MAX(LENGTH(title))
    FROM courses
    UNION
    SELECT MIN(LENGTH(title))
    FROM courses
);
```
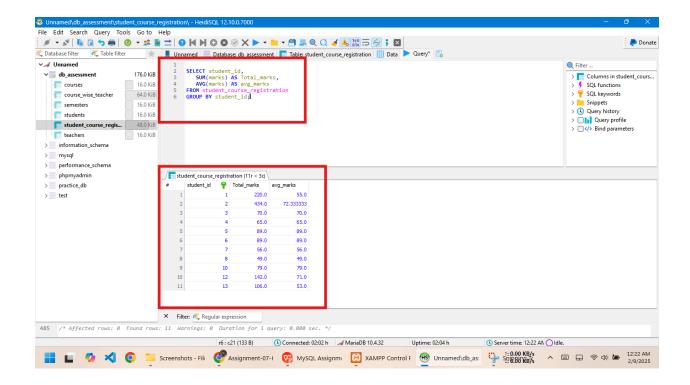
Results 5 :

Task 6 Query :

```sql
SELECT student_id,
    SUM(marks) AS Total_marks,
    AVG(marks) AS avg_marks
FROM student_course_registration
GROUP BY student_id;
```
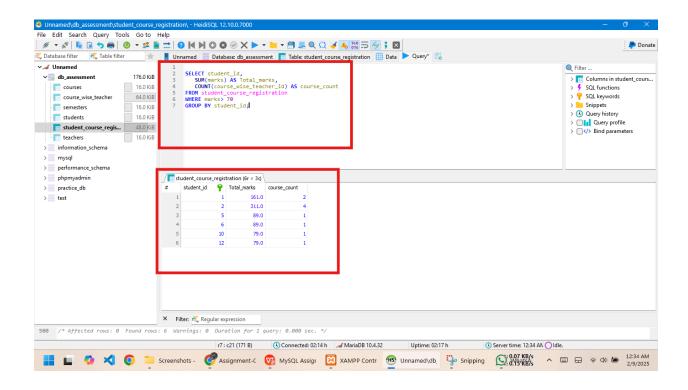
Results 6 :

Task 7 Query :

```sql
SELECT student_id,
    SUM(marks) AS Total_marks,
    COUNT(course_wise_teacher_id) AS course_count
FROM student_course_registration
WHERE marks> 70
GROUP BY student_id;
```

Results 7 :

Task 8 Query :

```sql
SELECT student_id, marks,
CASE
  WHEN marks >= 90 THEN 'Excellent'
  WHEN marks >= 70 THEN 'GOOD'
  WHEN marks >= 50 THEN 'Average'
  ELSE 'Poor'
END AS grade_categories
FROM student_course_registration;
```

Results 8 :