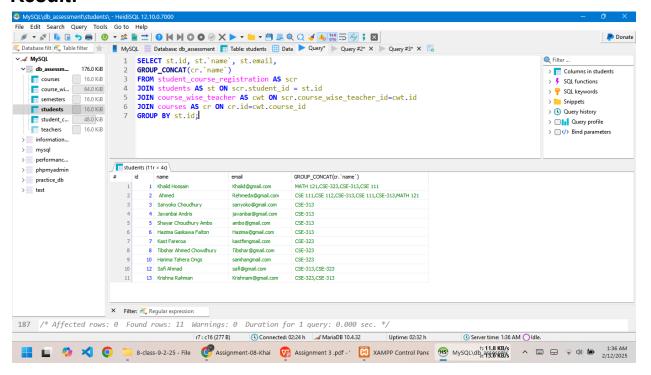
# **Assignment-08**

# **Submitted by Khairul Basar**

### Task- 1: Query:

```
SELECT
    st.id,
    st.`name`,
    st.email,
    GROUP_CONCAT(cr.`name`)
FROM
    student_course_registration AS scr
    JOIN students AS st ON scr.student_id = st.id
    JOIN course_wise_teacher AS cwt ON scr.course_wise_teacher_id = cwt.id
    JOIN courses AS cr ON cr.id = cwt.course_id
GROUP BY
    st.id;
```

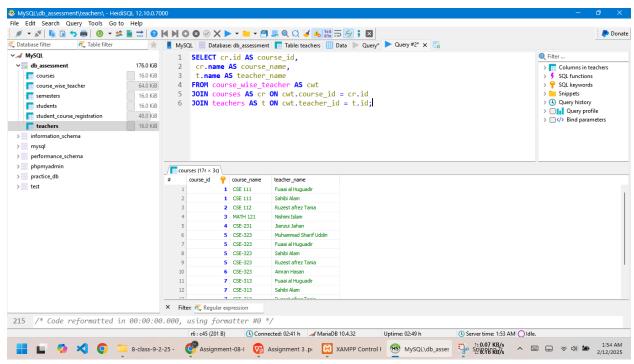


# Task- 2: Query:

```
SELECT cr.id AS course_id,
    cr.name AS course_name,
    t.name AS teacher_name
FROM course_wise_teacher AS cwt

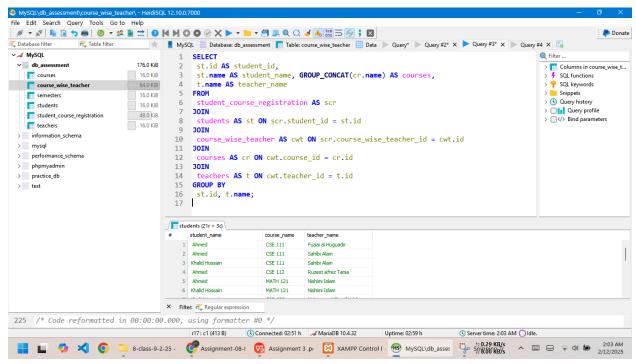
JOIN courses AS cr ON cwt.course_id = cr.id

JOIN teachers AS t ON cwt.teacher_id = t.id;
```



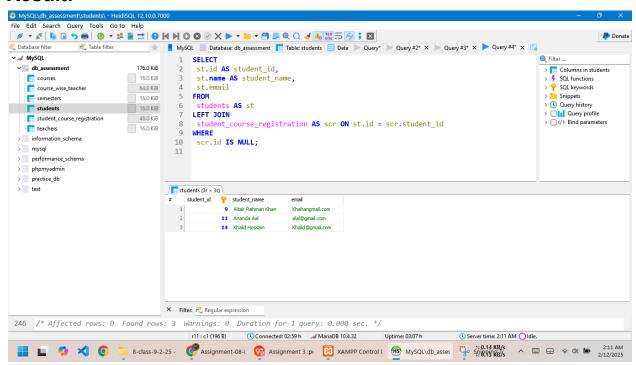
### Task- 3: Query:

```
SELECT
    st.id AS student_id,
    st.name AS student_name, GROUP_CONCAT(cr.name) AS courses,
    t.name AS teacher_name
FROM
    student_course_registration AS scr
JOIN
    students AS st ON scr.student_id = st.id
JOIN
    course_wise_teacher AS cwt ON scr.course_wise_teacher_id = cwt.id
JOIN
    courses AS cr ON cwt.course_id = cr.id
JOIN
    teachers AS t ON cwt.teacher_id = t.id
GROUP BY
    st.id, t.name;
```



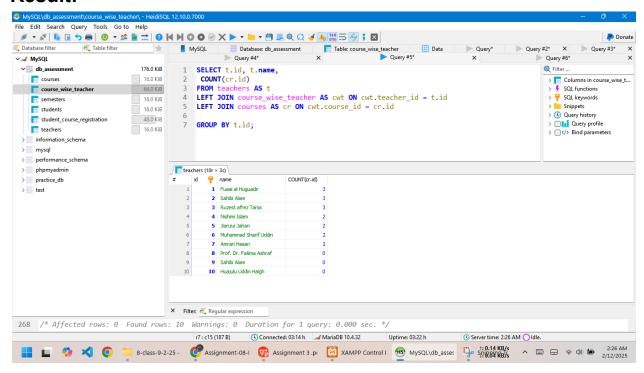
### Task- 4: Query:

```
SELECT
  st.id AS student_id,
  st.name AS student_name,
  st.email
FROM
  students AS st
LEFT JOIN
  student_course_registration AS scr ON st.id = scr.student_id
WHERE
  scr.id IS NULL;
```



# Task- 5: Query:

```
SELECT t.id, t.name,
   COUNT(cr.id)
FROM teachers AS t
LEFT JOIN course_wise_teacher AS cwt ON cwt.teacher_id = t.id
LEFT JOIN courses AS cr ON cwt.course_id = cr.id
GROUP BY t.id;
```



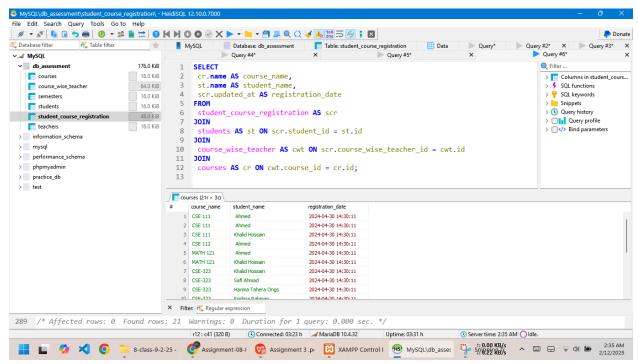
# Task- 6: Query:

```
SELECT
    cr.name AS course_name,
    st.name AS student_name,
    scr.updated_at AS registration_date
FROM student_course_registration AS scr

JOIN students AS st ON scr.student_id = st.id

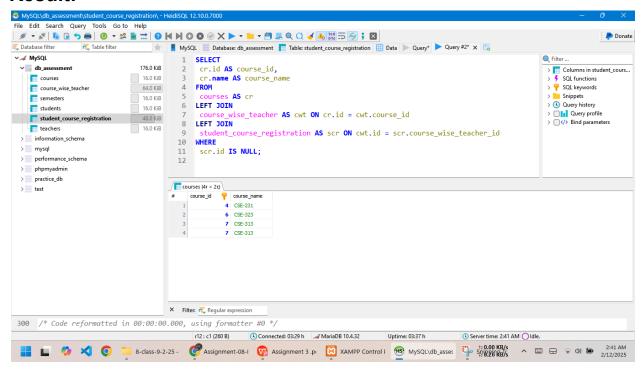
JOIN course_wise_teacher AS cwt ON scr.course_wise_teacher_id = cwt.id

JOIN courses AS cr ON cwt.course_id = cr.id;
```



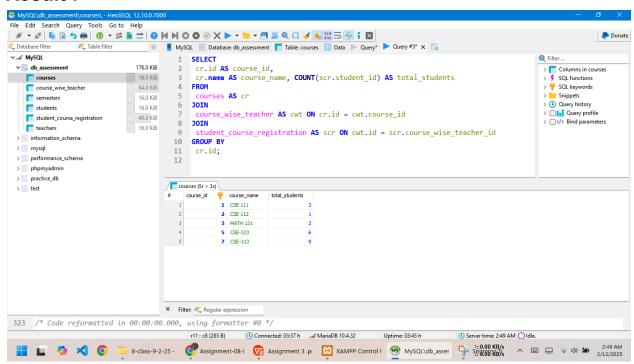
### Task- 7: Query:

```
SELECT
  cr.id AS course_id,
  cr.name AS course_name
FROM
  courses AS cr
LEFT JOIN
  course_wise_teacher AS cwt ON cr.id = cwt.course_id
LEFT JOIN
  student_course_registration AS scr ON cwt.id =
  scr.course_wise_teacher_id
WHERE
  scr.id IS NULL;
```



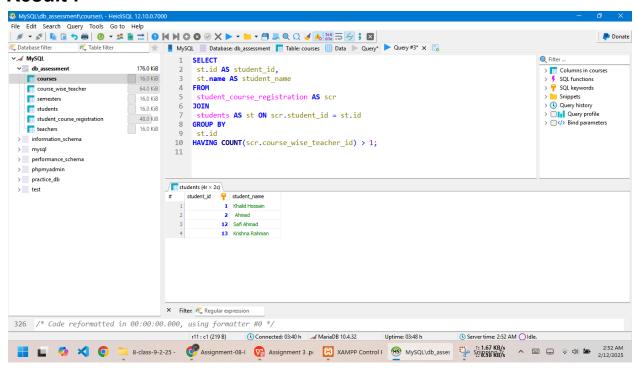
### Task- 8: Query:

```
SELECT
    cr.id AS course_id,
    cr.name AS course_name, COUNT(scr.student_id) AS total_students
FROM
    courses AS cr
JOIN
    course_wise_teacher AS cwt ON cr.id = cwt.course_id
JOIN
    student_course_registration AS scr ON cwt.id =
    scr.course_wise_teacher_id
GROUP BY
    cr.id;
```



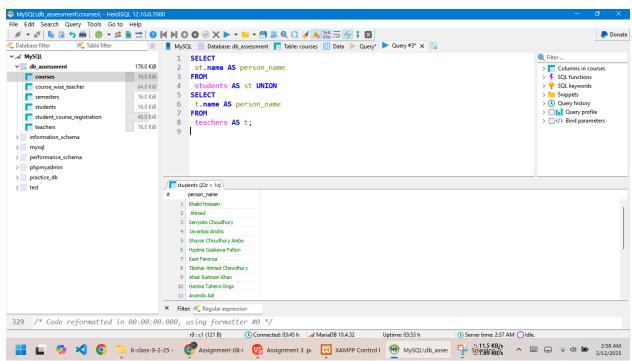
# Task- 9: Query:

```
SELECT
  st.id AS student_id,
  st.name AS student_name
FROM
  student_course_registration AS scr
JOIN
  students AS st ON scr.student_id = st.id
GROUP BY
  st.id
HAVING COUNT(scr.course_wise_teacher_id) > 1;
```



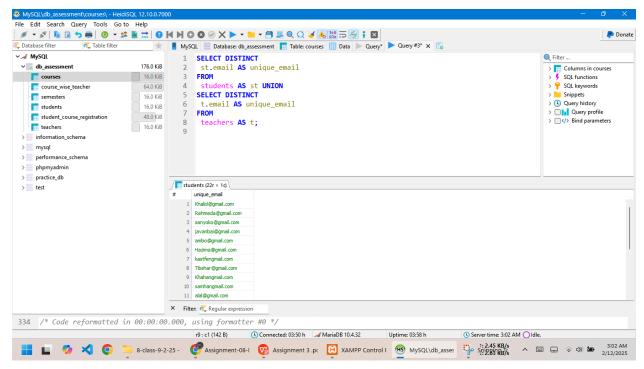
# Task- 10: Query:

```
SELECT
st.name AS person_name
FROM
students AS st UNION
SELECT
t.name AS person_name
FROM
teachers AS t;
```



# Task- 11: Query:

```
SELECT DISTINCT
st.email AS unique_email
FROM
students AS st UNION
SELECT DISTINCT
t.email AS unique_email
FROM
teachers AS t;
```



### Task- 12: Query:

```
SELECT
st.name AS NAME
FROM
students AS st
WHERE
st.name LIKE 'A%' UNION
SELECT
t.name AS NAME
FROM
teachers AS t
WHERE
t.name LIKE 'A%';
```

