Assesment3\_Subqueries & Joins

Subqueries

Exercise 1

Problem Statement:

Write a query to display trainer IDs for all associates whose names contain the letter 'i'. Note: Use sub-query to achieve this.

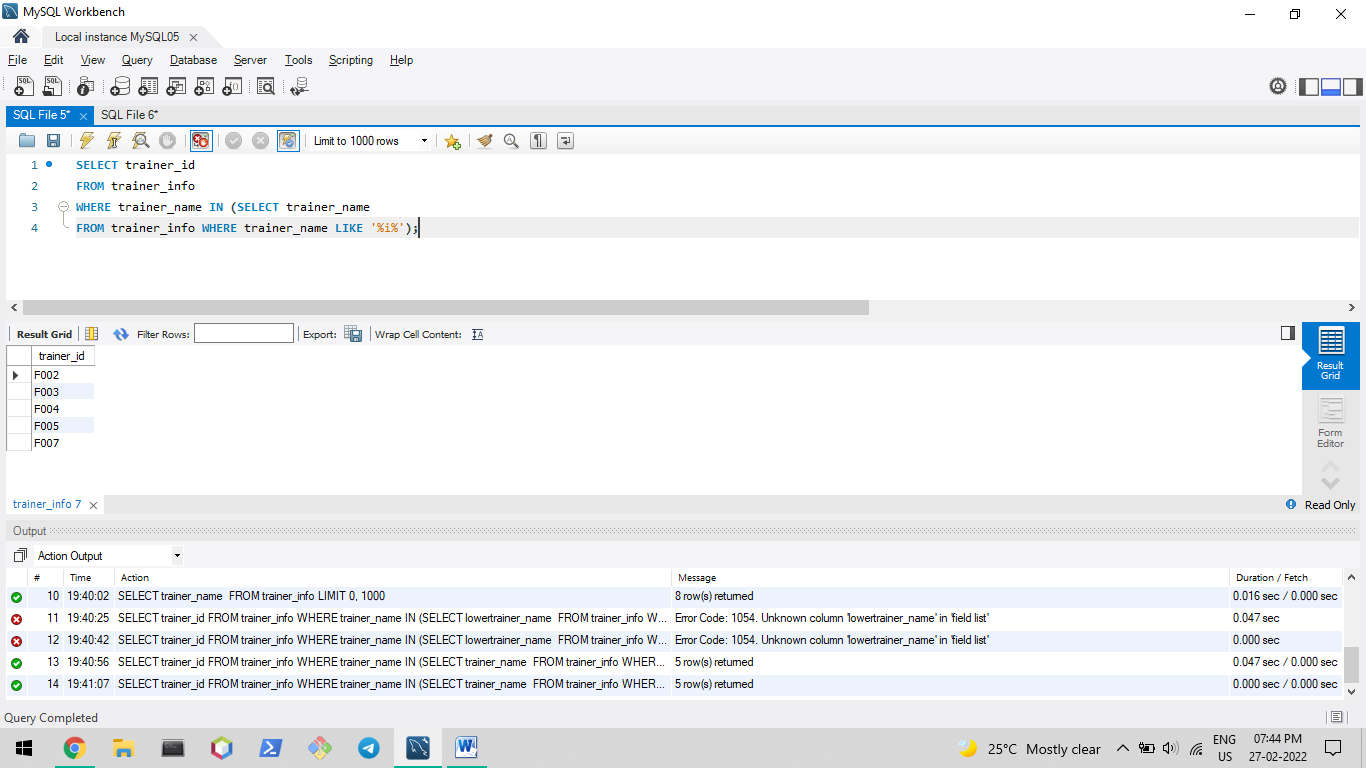
Ans:

SELECT trainer\_id

FROM trainer\_info

WHERE trainer\_name IN (SELECT trainer\_name

FROM trainer\_info WHERE trainer\_name LIKE '%i%');



Problem Statement:

Write a query to display trainer IDs for all associates whose names do not contain the letter 'i'.

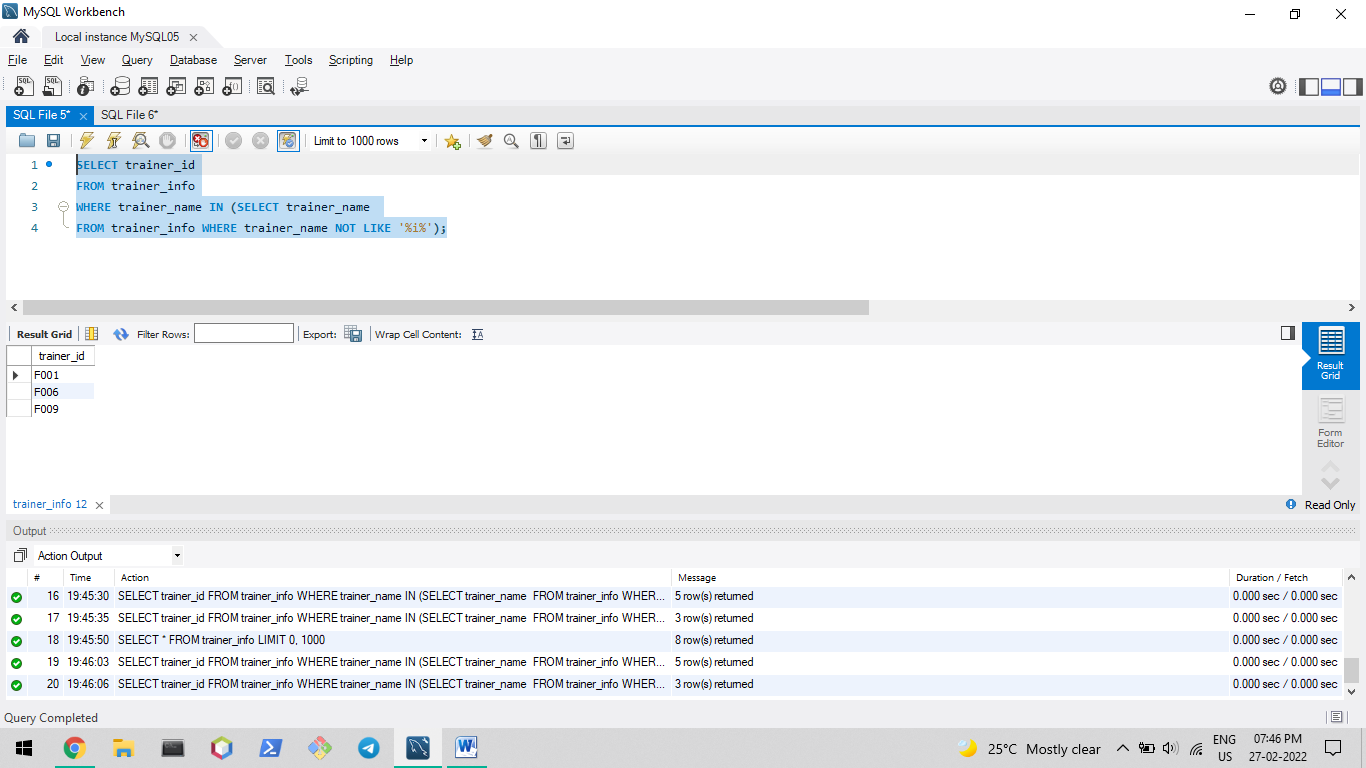
Ans:

SELECT trainer\_id

FROM trainer\_info

WHERE trainer\_name IN (SELECT trainer\_name

FROM trainer\_info WHERE trainer\_name NOT LIKE '%i%');



Problem Statement:

Write a query to display trainer ID and trainer rating for the trainers who handled J2EE module. Hint: Use trainer\_feedback and associate status tables.

Ans:

SELECT trainer\_id, trainer\_rating

FROM trainer\_feedback

WHERE module\_id = "J2EE";

Exercise 2

Following commands were used to create student table and add data to it to perform the given queries:

CREATE TABLE student(

registration\_id varchar(4) primary key,

student\_name varchar(100),

subject\_name varchar(100),

marks integer

);

INSERT INTO student VALUES ("S001", "Sambodhi Baid", "EI05IP", 94);

INSERT INTO student VALUES ("S002", "Madhurima Y.", "TS02IP", 98);

INSERT INTO student VALUES ("S003", "Shravya B.", "EI05IP", 96);

INSERT INTO student VALUES ("S004", "Mohd. Shahbaz", "UP07IP", 80);

INSERT INTO student VALUES ("S005", "Sumi Batra", "DL01IP", 75);

INSERT INTO student VALUES ("S006", "Amrita Dev", "DL01IP", 94);

Problem Statement:

Write a query to pick up the maximum marks secured in the subject “EI05IP” and display the student name and registration number of the student who has secured it.

Ans:

SELECT registration\_id, student\_name

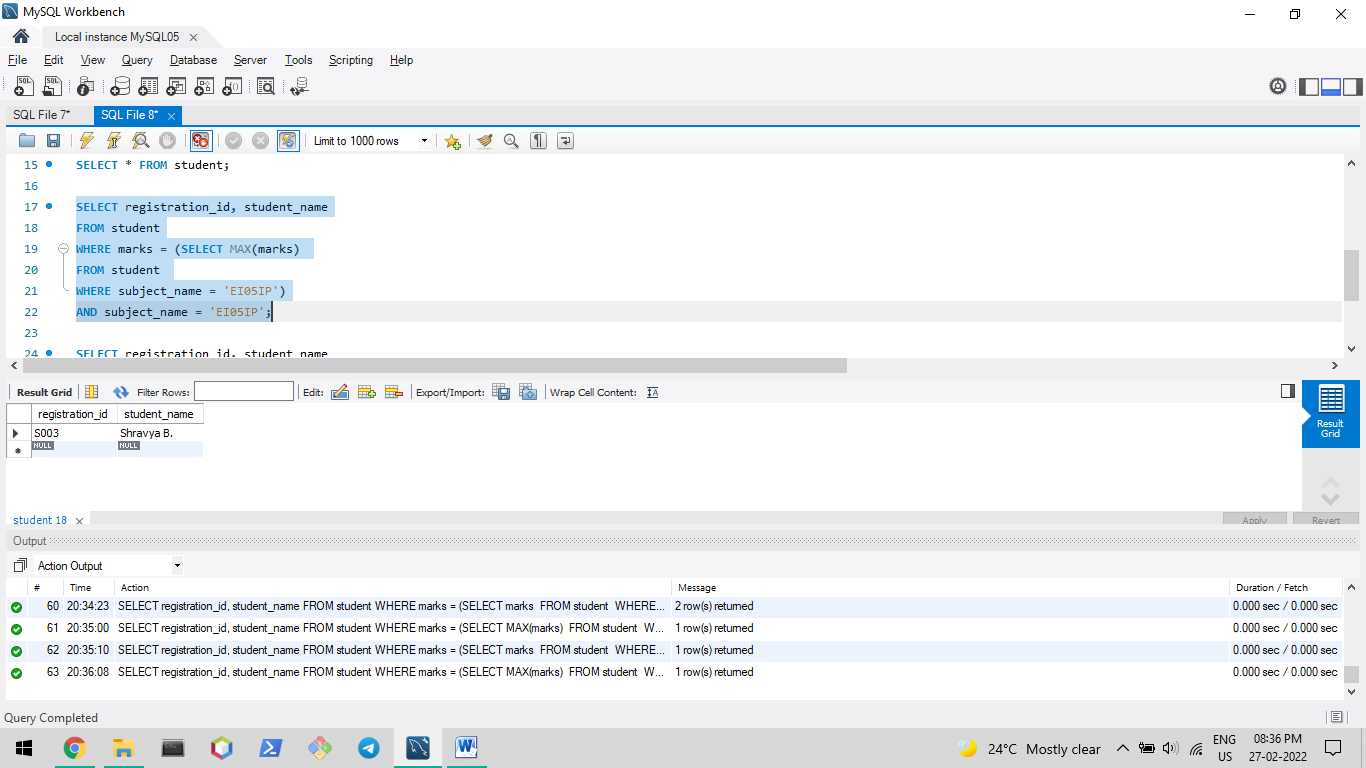
FROM student

WHERE marks = (SELECT MAX(marks)

FROM student

WHERE subject\_name = 'EI05IP')

AND subject\_name = 'EI05IP';



Problem Statement:

Write a query to display the student name and registration number of the student who has secured second highest marks in the subject El05lP subject.

Ans:

SELECT registration\_id, student\_name

FROM student

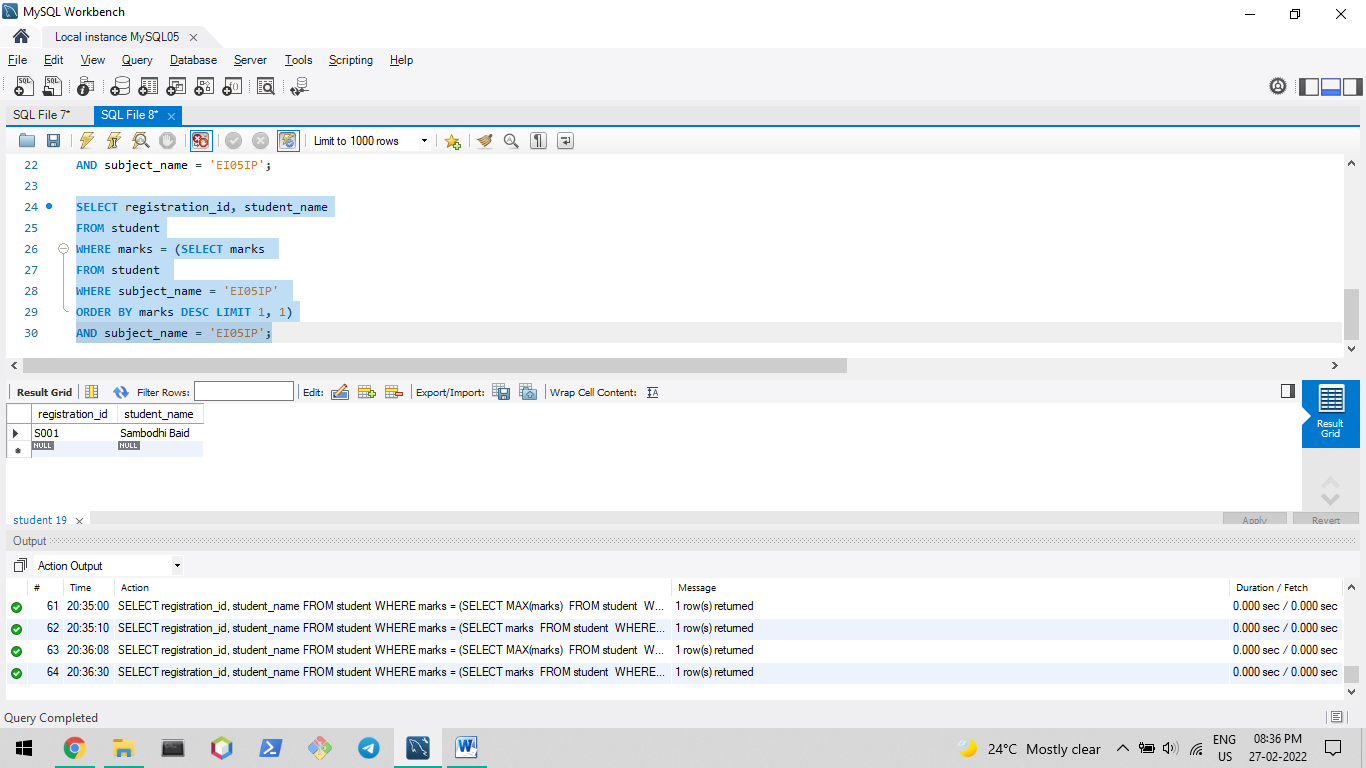
WHERE marks = (SELECT marks

FROM student

WHERE subject\_name = 'EI05IP'

ORDER BY marks DESC LIMIT 1, 1)

AND subject\_name = 'EI05IP';



Joins

Exercise 1

Problem Statement:

Write a query to display trainer\_id and batch\_id details in such a way that we get all possible combinations of trainer IDs and batch IDs.

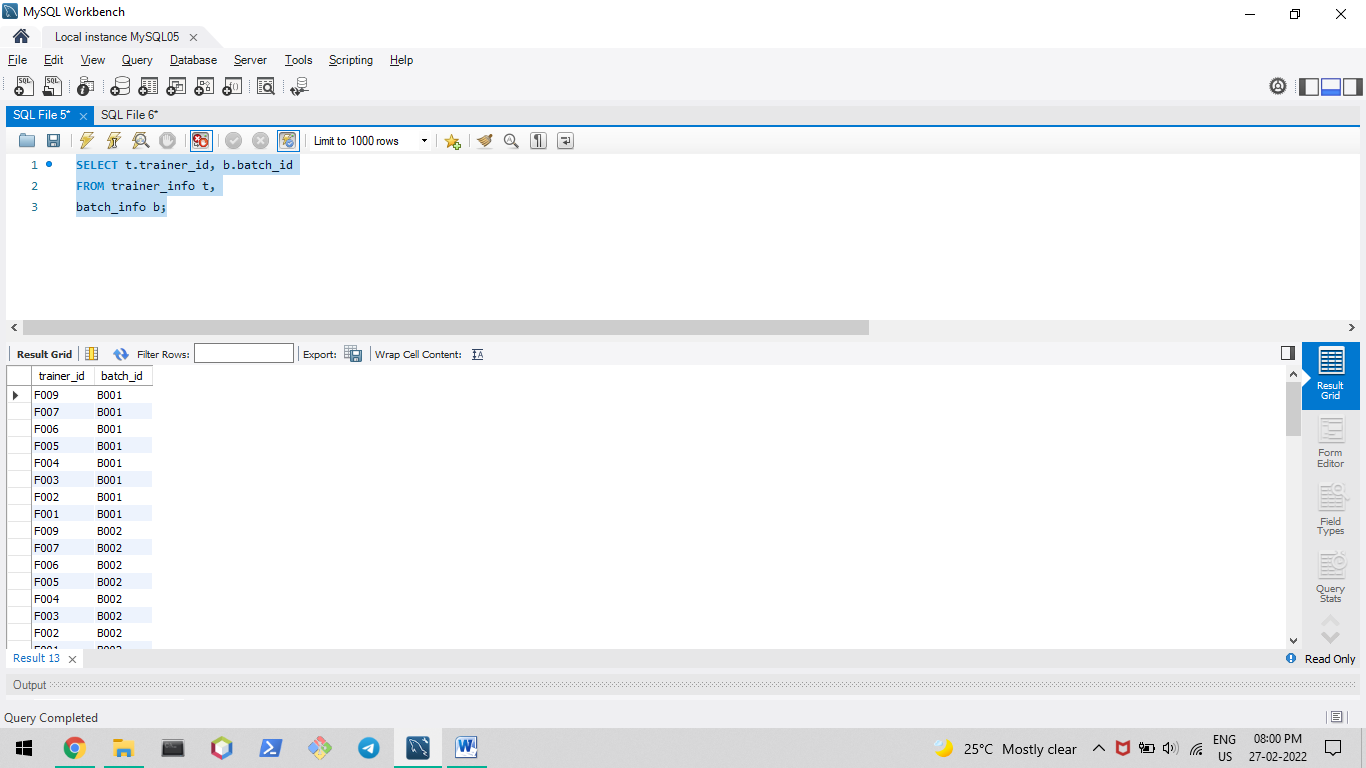
Hint: Use Trainer\_Info and Batch\_Info tables.

Ans:

SELECT t.trainer\_id, b.batch\_id

FROM trainer\_info t,

batch\_info b;



(large output)

Problem Statement:

Write a query to display the records from all columns of tables associate\_status and batch\_info, wherever the batch\_id in the two tables matches.

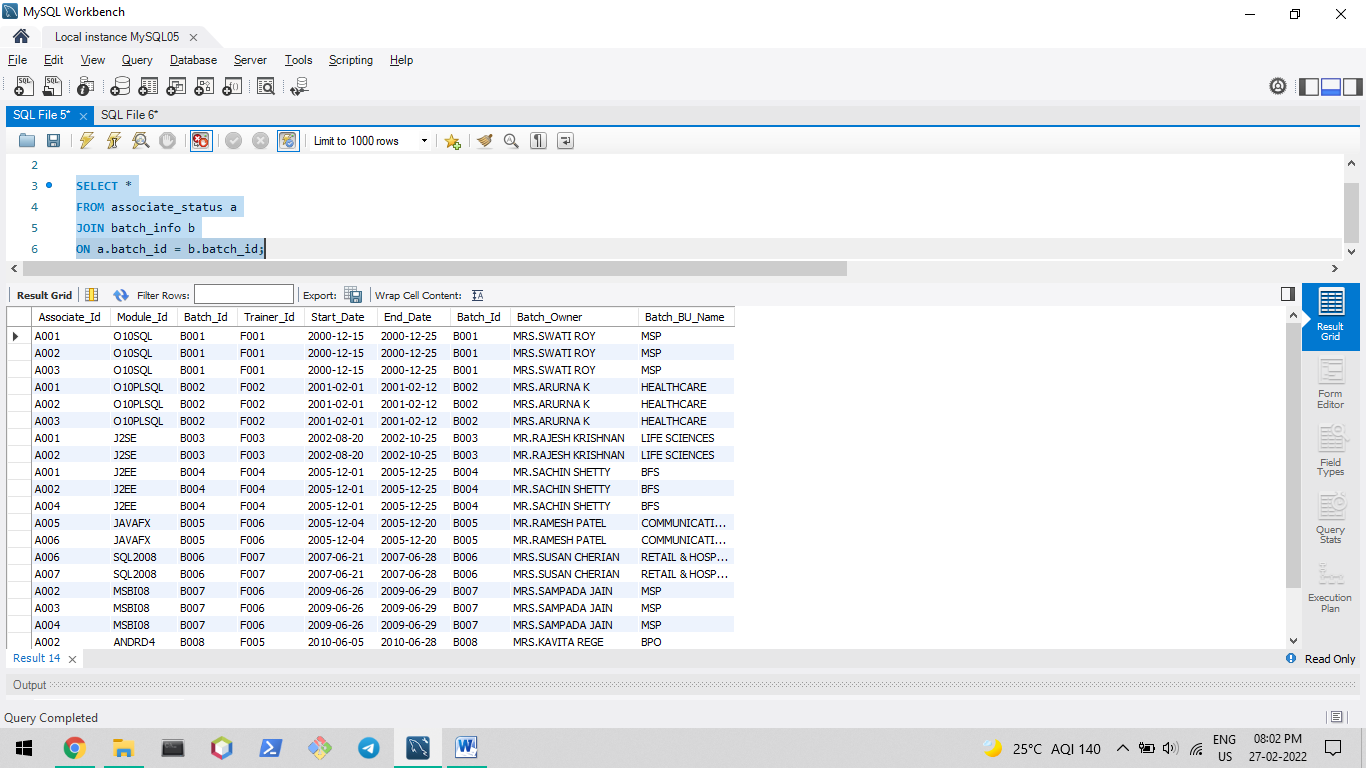
Ans:

SELECT \*

FROM associate\_status a

JOIN batch\_info b

ON a.batch\_id = b.batch\_id;



Problem Statement:

Write a query to display the associate IDs of the associates tagged to trainers and all the trainer IDs irrespective of whether there are any associates tagged to them or not. Hint: Use associate\_status and trainer\_info tables.

Note: Use Left Outer Join

Ans:

SELECT a.associate\_id, t.trainer\_id

FROM trainer\_info t

LEFT OUTER JOIN associate\_status a

ON t.trainer\_id = a.trainer\_id;

