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Lesson 5: Joins and Unions

For Joins problems Use this tutorial if needed :

https://www.w3schools.com/sql/sql_join.asp

1. Join the film to the film_actor table.

```
SELECT * FROM film  
  
INNER JOIN film_actor  
  
ON film.film_id=film_actor.film_id
```

OR

```
SELECT * FROM film  
  
FULL OUTER JOIN film_actor  
  
ON film.film_id=film_actor.film_id
```

2. Join the actor table to the film_actor table.

```
SELECT * FROM actor  
  
INNER JOIN film_actor  
  
ON actor.actor_id=film_actor.actor_id
```

OR

```
SELECT * FROM actor  
  
FULL OUTER JOIN film_actor  
  
ON actor.actor_id=film_actor.actor_id
```

3. Try to join the actor, film_actor, and film table together (3 joins!)

```
SELECT * FROM actor
INNER JOIN film_actor
ON actor.actor_id=film_actor.actor_id
INNER JOIN film
ON actor.actor_id=film.film_id
```

OR

```
SELECT * FROM actor
FULL OUTER JOIN film_actor
ON actor.actor_id=film_actor.actor_id
FULL OUTER JOIN film
ON actor.actor_id=film.film_id
```

4. Using the following Link

[https://github.com/niteen11/cuny_lagcc_micro_credential_data_analytics/tree/main/Track%20A/Unit%205%20-%20SQL %20Relational%20Databases/guided%20exercise](https://github.com/niteen11/cuny_lagcc_micro_credential_data_analytics/tree/main/Track%20A/Unit%205%20-%20SQL%20Relational%20Databases/guided%20exercise)

And attached data set (Student_data and Student_marks) answer the following questions :

-- students
with the
highest
marks in
Unit 4

```
SELECT * FROM student_marks
WHERE
    unit4=100
```

-- Find students scored between 89 and 100 unit4

```
SELECT * FROM student_marks
WHERE
    unit4>89 AND unit<100
```

Open ended questions:

- Take a closer look at the tables that you created and come up with 10 different scenarios/ questions and form SQL
- Ask your colleagues

- 1) How many students scored 100?
- 2) How many students scored between 89 and 100
- 3) Which student_id has the most consistent scores?
- 4) Which student_id scored the worst?
- 5) Which student_id has the best average score?
- 6) Which student_id scored the best on unit 2?
- 7) Which student_id scored the best on unit 3?
- 8) Which student_id scored the best on unit 4?
- 9) Which student_id scored the best on unit 5?
- 10) What was the lowest score out of all the unit tests?