INFO 102 Lab 8: Databases & SQL queries

Feel free to check in with your partner, but do your own worksheet today.

We will learn about **SQL queries** on the following platform for today's activity: go.illinois.edu/

Please follow the instructions online. Your attendance will be based on completing the activities online, as well as completing this worksheet.

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*Q1a: This question is about **Example 1.*** What are the fields of the table for this example?
1. student_id
2. name
3. grade

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*Q1a: This question is about **Example 1.*** What is the first record of this table?

(001, James Smith, 84)

Continue on the platform.

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*Q2a: This question is about **Example 3.***
There has been a mistake in the 'movies' table, where the release dates of all Sci Fi movies are recorded to be one day earlier than the actual date. You should increment release dates of Sci Fi movies by one. Moreover, there have been some incorrect entries that do not have any genre information. You should delete these from the table.

What two plans could you use to achieve this?
1. Update Records Conditionally
2. Remove Records

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*Q2b: This question is about **Example 3.*** Complete the query for incrementing 'Release Date' by one for movies whose 'Genre' is 'Sci Fi' in the table 'movies'.

```
UPDATE 'movies'
SET 'Release Date' = 'Release Date' + 1
WHERE 'Genre' = 'Sci Fi';
```

Continue on the platform.

Q3: *This question is about **Exercise 1.** We are wor
king on the Ad Management table from this exercise.
Assume that we have started multiple ad campaigns that contain the same celebrities.

Fill in the blanks to get the average 'Projected Reach' for each 'Celebrity'.

```
SELECT AVG('Projected Reach')
FROM 'Ads'
GROUP BY 'Celebrity'
```

Q4: Think about CRUD operations. What category does each of the plans you learned today fall into? Place an X to mark what CRUD operation each plan achieves.

	Create	Read	Update	Delete
Plan 1: Remove Records				X
Plan 2: View Records		X		
Plan 3: Update Records Conditionally			X	
Plan 4: Order Records		X		
Plan 5: Add New Record	X			
Plan 6: Summarize Records		X		

Q5: Do you think you will use SQL in your profession? If yes, describe one query that you might use and what you might want to achieve. If no, explain why.

Open-ended question - will not be graded - however you can check that they completed the activity

Go to the URL at the top

✓ Before You Start The Activity
● Example: Dropping students with failing grades from the class
   ✓ Plan 1: Remove Records
   ✓ Plan 2: View Records
● Example: Awarding Grammy's and finding recent Grammy nominee songs
   ✓ Plan 3: Update Records Conditionally
   ✓ Plan 4: Order Records
✓ Example: Tracking new movie releases
   ✓ Plan 5: Add New Record
   ✓ Plan 6: Summarize Records
● Exercise: Writing Queries for Ad Management
● Exercise: Managing Spotify Databases
● Before You Complete The Activity
● Before You Complete The Activity

Checkmark on "Before you start…"

Checkmark on last four

The last one may not have a checkmark - ignore