Module 1 Quiz

Latest Submission Grade 98%

1. Based on the dataset for this course, what does this query count?   **1 / 1 point**

```
▶ Run                    ✓ Limit 100        Format SQL

1   SELECT
2     COUNT(*)
3   FROM
4       dsv1069.users
5   JOIN
6     dsv1069.orders
7   ON
8       users.id = orders.user_id
```

- ⦿ Counts the number of rows in the orders table

- ○ Counts the numbers of users

- ○ Counts the number of invoices

- ○ Counts the number of users who have ordered an item

   ✓ **Correct**
   All of the orders have a user_id, and every user is in the user's table, so this will
   return the one row for every entry in the orders table.

2. Assume you have no information about the data in the example table.   **1 / 1 point**

   When I run the query below, no rows are returned, but there are no error messages.
   What are possible reasons for this? (Select all that apply.)

```
    Run          ✓  Limit 100      Format SQL       View History...
  1  SELECT *
  2  FROM example_table
  3  WHERE id IS NULL
```

☑ There are no rows with a null id

✓ **Correct**

☐ There is no column called id

☑ There are no rows in the example_table - it's empty

✓ **Correct**

3. In the events table, (dsv1069.events) for this class, how many rows exist per event_id?   **1 / 1 point**

◉ One per parameter_name

◯ Exactly one

◯ Always more than one

✓ **Correct**
   Yes, you've got it!

4. When you encounter a new dataset, which of the following can you assume? (Select all   **0.8 / 1 point**
   that apply.)

☑ There are duplicate rows

✓ **Correct**

✓ **Correct**
Always assume with a new dataset that it will have duplicate rows.

☐ The table has a primary key

☑ The data is out-of-date

✓ **Correct**
Always assume with a new dataset that the data is not up-to-date.

☑ The table is empty

✓ **Correct**
Always assume with a new dataset that the table is empty.

☐ Test usage is unfiltered

You didn't select all the correct answers

5. TROUBLESHOOT THIS ERROR: **1 / 1 point**

Based on your exploration of the tables in the course dataset. Why are the results to this specific query empty?

```
1    SELECT
2      *
3    FROM
4      dsv1069.users
5    JOIN
6      dsv1069.events
7    ON
8      users.parent_user_id = events.user_id
9    WHERE
10     event_name = 'view_item'
11   AND
12     merged_at IS NULL
13
```

No rows returned

◉ There are no parent_user_ids that satisfy the WHERE clause

○ The users table is empty

○ There are no events with this event_name

✓ **Correct**
You've got this!

6. TROUBLESHOOT THIS ERROR: **1 / 1 point**

Why are the results for this specific query empty?

```
1   SELECT
2     *
3   FROM
4     dsv1069.events
5   WHERE
6     event_name = 'item_view'
```

No rows returned

⦿ There are no events with this event_name

○ The table is empty

○ No items have ever been viewed

✓ **Correct**
Keep up the good work!

7. What does this query do? Select all true statements.   **1 / 1 point**

```
1   SELECT
2     COUNT(*)
3   FROM
4     dsv1069.events
5   WHERE
6     event_name = 'view_item'
```

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		count
1	525572	

☐ The query returns all of the rows in the events table.

☐ The query counts the number of events.

☑ The query counts the number of rows corresponding to view_item events.

    ✓ **Correct**
    Count(*) counts rows not unique events, and because of this where clause it
    counts the number of view_item event rows.

☐ The query counts the number of view_item events.

☐ The query counts the number of rows in the events table.

8. Consider the following query: **1 / 1 point**

```
1   SELECT *
2   FROM table_alpha
3   JOIN table_beta
4   ON table_alpha.key = table_beta.column
```

What happens when some rows have a NULL value in the column table_alpha.key?

○ It is not possible for a join key to be null, the query will return an error.

○ Those values aren't included in the result.

◉ Each row with a null value is joined to every row in table_beta where table_beta.column is null.

○ Each row with a null value will be joined to every row in table_beta.

✓ **Correct**
Exactly right!

9. Which of the following are problems with the query below?   **1 / 1 point**

```
1   SELECT
2     COUNT(*)
3   FROM
4     dsv1069.users
5   JOIN
6     dsv1069.orders
7   ON
8     users.parent_user_id = orders.user_id
```

Export   Copy   Chart   Pivot

		count
1	2604	

○ We are missing a comma

◉ Count(*) counts rows not unique users

○ The join should be on users.user_id

○ The join should be on users.parent_user_id

○ There are no error messages, so it must be right

○ We need a GROUP BY clause

⊘ **Correct**
So although we received no error message, we must be sure we correctly querying for the correct results.

10. In the users table, the column parent_user_id is _____.   **1 / 1 point**

○ Never NULL

○ Always NULL

⦿ Sometimes NULL

⊘ **Correct**