✓ **Congratulations! You passed!**
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Module 3 Quiz

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1. Which of the following statements is true regarding subqueries?   `1 / 1 point`

   ○ Subqueries always process the outermost query first and the work inward.

   ◉ Subqueries always process the innermost query first and the work outward.

   ○ Subqueries will process whichever query you indicate for them to process first.

   ✓ **Correct**
   See the videos on subqueries in the module for more information.

2. If you can accomplish the same outcome with a join or a subquery, which one should you always choose?   `1 / 1 point`
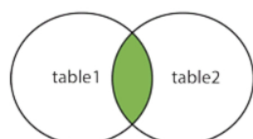
   ○ A subquery because they are always faster

   ○ Whichever one you understand better and can write faster.

   ○ A join because they are always faster

   ◉ Joins are usually faster, but subqueries can be more reliable, so it depends on your situation.

   ✓ **Correct**
   See the videos on subqueries in the module for more information.

3. The following diagram is a depiction of what type of join?   `1 / 1 point`

   ○ Left Join

   ○ Right Join

   ◉ Inner Join

   ○ Full Outer Join

   ✓ **Correct**
   See the videos entitled, "Inner Joins" and "Advanced Joins" for more information.

4. Select which of the following statements are true regarding inner joins. (Select all that apply)   `1 / 1 point`

   ☑ Performance will most likely worsen with the more joins you make

   ✓ **Correct**
   See the video entitled, "Inner Joins" for more information.

   ☑ There is no limit to the number of table you can join with an inner join.

   ✓ **Correct**
   See the video entitled, "Inner Joins" for more information.

   ☑ Inner joins are one of the most popular types of joins use

   ✓ **Correct**
   See the video entitled, "Inner Joins" for more information.

   ☐ Inner joins retrieve all matching and nonmatching rows from a table

5. Which of the following is true regarding Aliases? (Select all that apply.)

1 / 1 point

☑ Aliases are often used to make column names more readable.

✓ **Correct**
See the video entitled, "Aliases and Self Joins" for more information.

☑ An alias only exists for the duration of the query.

✓ **Correct**
See the video entitled, "Aliases and Self Joins" for more information.

☑ SQL aliases are used to give a table, or a column in a table, a temporary name.

✓ **Correct**
See the video entitled, "Aliases and Self Joins" for more information.

6. What is wrong with the following query?

1 / 1 point

```
1    SELECT Customers.CustomerName, Orders.OrderID
2    FROM LEFT JOIN ON Customers.CustomerID = Orders.CustomerID FROM Orders AND Customers
3    ORDER BY
4    CustomerName;
5
```

○ Column names do not have an alias

○ Should be using an inner join rather than a left join

◉ The table name comes after the join condition

✓ **Correct**
See the videos entitled, "Inner Joins" and "Advanced Joins" for more information.

7. What is the difference between a left join and a right join?

1 / 1 point

◉ The only difference between a left and right join is the order in which the tables are relating.

○ A left join always is used before a right join in a query statement

○ A right join is always used *before* a full outer join, whereas a left join is always used *after* a full outer join

○ There is actually no difference between a left and a right join.

✓ **Correct**
See the video entitled, "Advanced Joins: Left, Right, and Full Outer Joins" for more information.

8. If you perform a cartesian join on a table with 10 rows and a table with 20 rows, how many rows will there be in the output table?

1 / 1 point

○ 20

○ 10

○ 15

◉ 200

✓ **Correct**
See the video entitled, "Cartesian (Cross) Joins" for more information.

9. Which of the following statements about Unions is true? (select all that apply)

1 / 1 point

☑ The UNION operator is used to combine the result-set of two or more SELECT statements

✓ **Correct**
See the video entitled, "Unions" for more information.

☐ The order of the SELECTed columns in a UNION does not matter

☑ Each SELECT statement within UNION must have the same number of columns

✓ **Correct**
See the video entitled, "Unions" for more information.

☑ The columns must also have similar data types

✓ **Correct**
See the video entitled, "Unions" for more information.

10. Data scientists need to use joins in order to: (select the best answer)   **1 / 1 point**

◉ Retrieve data from multiple tables.

◯ Filter data from multiple tables.

◯ Create new tables.

✓ **Correct**
See any of the videos on Joins in this module for more information.

✓ **Correct**
See the video entitled, "Unions" for more information.

☑ The columns must also have similar data types

✓ **Correct**