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

- ☒ Subqueries always process the innermost query first and the work outward.
- ☐ Subqueries always process the outermost query first and the work inward.
- ☐ Subqueries will process whichever query you indicate for them to process first.

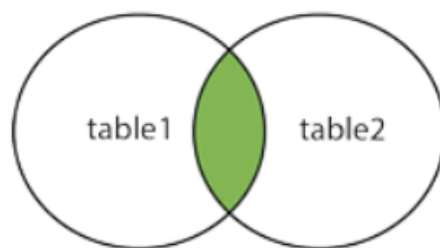
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2. If you can accomplish the same outcome with a join or a subquery, which one should you always choose?

- ☐ A subquery because they are always faster
- ☒ Joins are usually faster, but subqueries can be more reliable, so it depends on your situation.
- ☐ A join because they are always faster
- ☐ Whichever one you understand better and can write faster.

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3. The following diagram is a depiction of what type of join?



- ☒ Inner Join
- ☐ Right Join
- ☐ Left Join

☐ Full Outer Join

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

- ☐ Performance will most likely worsen with the more joins you make
- ☐ There is no limit to the number of table you can join with an inner join.
- ☒ Inner joins retrieve all matching and nonmatching rows from a table
- ☐ Inner joins are one of the most popular types of joins use

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

- ☐ SQL aliases are used to give a table, or a column in a table, a temporary name.
- ☐ An alias only exists for the duration of the query.
- ☐ Aliases are often used to make column names more readable.

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6. What is wrong with the following query?

```
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
```

- ☐ The table name comes after the join condition
- ☐ Column names do not have an alias
- ☐ Should be using an inner join rather than a left join

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

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- ☐ A left join always is used before a right join in a query statement
- ☐ There is actually no difference between a left and a right join.
- ☒ The only difference between a left and right join is the order in which the tables are relating.
- ☐ A right join is always used *before* a full outer join, whereas a left join is always used *after* a full outer join

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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?

- ☒ 200
- ☐ 15
- ☐ 10
- ☐ 20

Module 3 Quiz

Quiz, 10 questions

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

- ☒ Each SELECT statement within UNION must have the same number of columns
- ☒ The UNION operator is used to combine the result-set of two or more SELECT statements
- ☐ The columns must also have similar data types
- ☒ The order of the SELECTed columns in a UNION does not matter

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

- ☐ Create new tables.
- ☒ Retrieve data from multiple tables.
- ☐ Filter data from multiple tables.

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