1. Why might a security analyst use SQL?

   ○ To create new files on their computer

   ○ To store data in a spreadsheet

   ⦿ To efficiently find needed data in security logs

   ○ To assign new passwords to users

   ✓ **Correct**

   1 / 1 point

2. What is true about the values in the primary key column? Select all that apply.

   ☑ They cannot be null (or empty).

   ✓ **Correct**

   ☐ They do not need to be unique.

   ☐ They should never contain numeric data.

   ☑ Each row must have a unique value.

   ✓ **Correct**

   1 / 1 point

3. Which of these SQL statements queries the `log_in_attempts` table? Select all that apply.

   ☑ `SELECT *`

      `FROM log_in_attempts;`

   ✓ **Correct**

   ☑ `SELECT event_id, username`

      `FROM log_in_attempts`

      `WHERE event_id < 150;`

   ✓ **Correct**

   ☐ `SELECT log_in_attempts`

      `FROM *;`

   ☐ `SELECT log_in_attempts`

      `FROM event_id;`

   1 / 1 point

4. What does `INNER JOIN` do?

   ○ Return every row in joined tables

   ○ Filter databases to return only columns that exist in every table

   ○ Combine tables and save them as a new table

   ⦿ Compare tables and return only the rows that have a matching value in a specified column

   ✓ **Correct**

   1 / 1 point

5. A security professional uses SQL to return records from a table and applies a filter to the query. Which of the following keywords would they need to use in their query? Select all that apply.

   ☐ `ON`

   ☑ `SELECT`

   ✓ **Correct**

   ☑ `FROM`

   ✓ **Correct**

   ☑ `WHERE`

   ✓ **Correct**

   1 / 1 point

6. You work with a table that has one column for `name`. Some of these names have prefixes. You want to identify all of the doctors. Which query will return every name that starts with the prefix `'Dr.'`?

   ⦿ `WHERE name LIKE 'Dr.%';`

   ○ `WHERE name LIKE 'Dr._';`

   ○ `WHERE name = 'Dr._';`

   ○ `WHERE name = 'Dr.%';`

   ✓ **Correct**

   1 / 1 point

7. What does the following query return?

```
SELECT *

FROM employees

RIGHT JOIN machines ON employees.device_id = machines.device_id;
```

- ○ All columns and records from the `employees` and `machines` tables
- ○ All columns of the `employees` and `machines` tables and the records from `employees` and `machines` that match on `device_id`
- ⦿ All columns of the `employees` and `machines` tables, all records from the `machines` table, and the records from `employees` that match on `device_id`
- ○ All columns of the `employees` and `machines` tables, all records from the `employees` table, and the records from `machines` that match on `device_id`

✓ **Correct**

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8. You are working with the `Chinook` database. You want to return the `company` and `country` columns from the `customers` table. Replace `--???` with the missing information to complete the query. (If you want to undo your changes to the query, you can click the Reset button.)

```
1   --???
2   FROM customers;
```

Run

Reset

In what country is JetBrains s.r.o. located?

- ○ Brazil
- ⦿ Czech Republic
- ○ Germany
- ○ United States

✓ **Correct**

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9. You are working with the `Chinook` database and are responsible for filtering for the employees with a `birthdate` that is on or after `'1973-01-01'` (January 1, 1973). Replace `--???` with the missing information to complete the query. (If you want to undo your changes to the query, you can click the Reset button.)

```
1   SELECT firstname,lastname, birthdate
2   FROM employees
3   --???
```

Run

Reset

How many employees were born on or after January 1, 1973?

- ⦿ 4
- ○ 1
- ○ 3
- ○ 2

⊗ **Incorrect**
Please review the video on filtering dates and numbers ☑.

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10. You are working with the `Chinook` database and are responsible for filtering for the customers that live in the `city` of `'Mountain View'` and work for the `company` of `'Google Inc.'` Replace `--???` with the missing information to complete the query. (If you want to undo your changes to the query, you can click the Reset button.)

```
1   SELECT firstname, lastname, city, company
2   FROM customers
3   --???
```

Run

Reset

How many customers live in Mountain View and work for Google Inc.?

- ○ 4
- ○ 1
- ⦿ 2
- ○ 3

⊗ **Incorrect**
Please review the video on filters with AND, OR, and NOT ☑.