

## Working with databases

## Managing data with metadata

### Accessing different data sources

## Sorting and filtering

## Working with large datasets in SQL

**\*Weekly challenge 3\***

 **Reading:** Glossary: Terms and definitions  
10 min

 **Quiz: \*Weekly challenge 3\***  
8 questions

✔ Congratulations! You passed!

Grade **\*Weekly challenge 3\*** Latest Submission To pass 80% or  
received 93.75% Grade 90.83% higher  
Quiz • 40 min

**Go to next item**

## Review Learning Objectives

1. In a relational database, what type of key is used to connect individual tables together, and a table can have more than one of this type of key?

 **Submit your assignment**

**Try again**

Due Jul 2, 11:59 PM +08 Attempts 3 every 24 hours

☒ Foreign

☐ Primary

☐ Secondary **Receive grade**

☒ Correct **To Pass** 80% or higher

☐ Secondary ☒ **Receive grade**

**To Pass** 80% or higher

☒ **Correct**

**Your grade**  
**93.75%**

**View Feedback**

2. What do metadata repositories do to make it simpler and quicker to use multiple data sources for analysis? Select all that apply. 0.75 / 1 point

☒ Keep the metadata in an accessible form

☐ Correct

☒ Keep metadata in a common structure

☒ Correct

☒ Describe where data came from

☒ **Correct**

✔ Store the related data assets

⊗ **This should not be selected**

Please review [the video about using metadata as an analyst](#)

3. Think about data as a student at a high school. In this metaphor, which of the following are examples of metadata? Select all that apply.

☒ Grades the student earns

☐ **This should not be selected**  
Please review [the video about metadata](#) 

☒ Classes the student is enrolled in

☒ Correct

☒ Student's enrollment date

☒ Correct

✓ Student's ID number

✓ Correct

4. What is the process that data analysts use to ensure the formal management of their company's data assets? 1 / 1 point

☐ Data mapping

☐ Data integrity

☒ Data governance

☐ Data aggregation

☒ Correct

5. What are some of the reasons for open data initiatives? Select all that apply. 0.75 / 1 point

☒ To give people ways to provide feedback to the government

☒ **Correct**

☒ To make government activities more transparent

☒ Correct

☒ To educate citizens about local issues

☐ Correct

☒ To increase protection of proprietary data

☐ **This should not be selected**  
Please review [the video about internal and external data](#).

6. A school has a list of currently enrolled students with the columns `first_name`, `last_name`, and `current_grade_level`. They assign students to a guidance counselor by the first letter of their last name. (For example, counselor 1 will get A, B, and C; counselor 2 will get D, E, and F; and so on.) What would be the first step in organizing this data so the school can assign counselors to students?

- ☐ Sort `current_grade_level` numerically in ascending order.
- ☐ Sort `current_grade_level` numerically in descending order.
- ☒ Sort `last_name` alphabetically in ascending order.
- ☐ Sort `first_name` alphabetically in ascending order.

☒ **Correct**

7. In the following piece of SQL code, what does the asterisk (\*) represent? 1 / 1 point

`SELECT * FROM customers`

- ☐ Include specified conditions.
- ☐ Include all tables.
- ☒ Include all columns.
- ☐ Include the first column.

☒ **Correct**

8. You are working with a database table that contains customer data. The *support\_rep\_id* column contains the identification number of the support representative assigned to a customer's account. You are only interested in customers who are assigned to support representative 4.

You write the SQL query below.

```
SELECT * FROM Customer
```

What code would be added to return only customers assigned to the support representative with the ID of 4?

- ☐ IN support\_rep\_id = '4'
- ☐ support\_rep\_id = '4'
- ☒ WHERE support\_rep\_id = '4'
- ☐ JOIN support\_rep\_id = '4'