

WEEK 3 CHALLENGE QUESTIONS

In this challenge, you'll practice joining tables and getting information from different set of tables.

Instructions: Try to answer these questions first and then compare your answers with the provided solutions. You may also submit your answers to avacas@datascienceupskill.com to get personal feedback from me. Send me a [chat message at slack](#) if you have questions. Good luck!

1. Find the top 10 customers who paid the most in a single transaction. **Show their customer ID, first name, last name and amount paid.** Sort the results by amount paid (highest on top) and by customer ID.

2. For the customer named Elizabeth Brown, find all **the amounts she paid, the payment dates as well as the staff's first and last name** who served her on each transaction. Sort the results by payment date (latest date on top).

Also add another column named **"Amount > 2.99"** which performs mathematical operation (amount > 2.99). It will show either 'true' or 'false' under that column.

Hint: The customer's first name is Elizabeth and last name is Brown. Note that both the customer table and staff table have attributes named 'first name' and 'last name' so make sure to use the appropriate table name/alias when referring to these attributes.

3. Produce a table showing the film ID, title, category name (renamed as category) and inventory ID of films that do not have any inventory.

4. Using either left join or right join clause, produce a table that shows the film ID title, language name (renamed as language) and rental date of film IDs ranging from 144 to 149.

Hint: Make sure to show all the films including those that were not rented out.

Question: How many of these films were not rented out?

BONUS Exercise (Optional): Create a table showing the customer ID, email address, city and country of origin of customers. Sort by customer ID and limit your results to the first 10 customers.

Note: Some tables in your query may start with the same letter. Use different aliases.

Question: What's the country of origin of customer ID no. 1?