

Question 1:

Level: Simple

Topic: DISTINCT

Task: Create a list of all the different (distinct) replacement costs of the films.

Question: Whats the lowest replacement cost?

Answer: 9.99

Question 2:

Level: Moderate

Topic: CASE + GROUP BY

Task: Write a query that gives an overview of how many films have replacements costs in the following cost ranges

1. low: 9.99 - 19.99
2. medium: 20.00 - 24.99
3. high: 25.00 - 29.99

Question: How many films have a replacement cost in the "low" group?

Answer: 514

Question 3:

Level: Moderate

Topic: JOIN

Task: Create a list of the film titles including their title, length and category name ordered descendingly by the length. Filter the results to only the movies in the category 'Drama' or 'Sports'.

Question: In which category is the longest film and how long is it?

Answer: Sports and 184

Question 4:

Level: Moderate

Topic: JOIN & GROUP BY

Task: Create an overview of how many movies (titles) there are in each category (name).

Question: Which category (name) is the most common among the films?

Answer: Sports with 74 titles

Question 5:

Level: Moderate

Topic: JOIN & GROUP BY

Task: Create an overview of the actors first and last names and in how many movies they appear.

Question: Which actor is part of most movies??

Answer: Susan Davis with 54 movies

Question 6:

Level: Moderate

Topic: LEFT JOIN & FILTERING

Task: Create an overview of the addresses that are not associated to any customer.

Question: How many addresses are that?

Answer: 4

Question 7:

Level: Moderate

Topic: JOIN & GROUP BY

Task: Create an overview of the cities and how much sales (sum of amount) have occurred there.

Question: Which city has the most sales?

Answer: Cape Coral with a total amount of 221.55

Question 8:

Level: Moderate to difficult

Topic: JOIN & GROUP BY

Task: Create an overview of the revenue (sum of amount) grouped by a column in the format "country, city".

Question: Which country, city has the least sales?

Answer: United States, Tallahassee with a total amount of 50.85.

Question 9:

Level: Difficult

Topic: Uncorrelated subquery

Task: Create a list with the average of the sales amount each staff_id has per customer.

Question: Which staff_id makes in average more revenue per customer?

Answer: staff_id 2 with an average revenue of 56.64 per customer.

Question 10:

Level: Difficult to very difficult

Topic: EXTRACT + Uncorrelated subquery

Task: Create a query that shows average daily revenue of all Sundays.

Question: What is the daily average revenue of all Sundays?

Answer: 1410.65

Question 11:

Level: Difficult to very difficult

Topic: Correlated subquery

Task: Create a list of movies - with their length and their replacement cost - that are longer than the average length in each replacement cost group.

Question: Which two movies are the shortest in that list and how long are they?

Answer: CELEBRITY HORN and SEATTLE EXPECTATIONS with 110 minutes.

Question 12:

Level: Very difficult

Topic: Uncorrelated subquery

Task: Create a list that shows how much the average customer spent in total (customer life-time value) grouped by the different districts.

Question: Which district has the highest average customer life-time value?

Answer: Saint-Denis with an average customer life-time value of 216.54.

Question 13:

Level: Very difficult

Topic: Uncorrelated subquery

Task: Create a list that shows all payments including the payment_id, amount and the film category (name) plus the total amount that was made in this category. Order the results ascendingly by the category (name) and as second order criterion by the payment_id ascendingly.

Question: What is the total revenue of the category 'Action' and what is the lowest payment_id in that category 'Action'?

Answer: Total revenue in the category 'Action' is 4375.85 and the lowest payment_id in that category is 16055.

Bonus question 14:

Level: Extremely difficult

Topic: Correlated and uncorrelated subqueries (nested)

Task: Create a list with the top overall revenue of a film title (sum of amount per title) for each category (name).

Question: Which is the top performing film in the animation category?

Answer: DOGMA FAMILY with 178.70.