

Intro to Relational Databases

Step 2:

- a. I used the “Find & Select” feature in Excel and found 3 results for “Ed”.
- b. When using the SQL statement, the count for Ed was 3 which matches the result from Excel.
- c. I believe once I’m more familiar with SQL, it would much more intuitive than Excel.

Step 3:

- a. Column Names: payment_id, customer_id, staff_id, rental_id, amount, and payment_date.
- b. Table Names: actor, store, address, category, city, country, customer, film_actor, film_category, inventory, languar, rental, staff, payment, and file.
- c. Yes, on the left menu in the Rockbuster database, go to Schemas then Tables and I can see all table names listed below.
- d. The most film (212) are rented for 6 days.

Step 4:

OLAP system

Sales department might use OLAP system to see how many of each film have been rented over a period.

Marketing department might use OLAP system to find trends (i.e. genre) over time.

OLTP system

Customer Service might use OLTP system to update customer information and transactions.

Shipping Department might use OLTP system to update order and shipping information.

Step 5:

- a. The data is structured as it could be easily organized in tables of rows and columns.

Invoice	Item	Quantity	Description	Price \$	Customer_first_name
2019001	001	1	New Video Collection Licensing	730	Timothy

Customer_last_name	Customer_address	Organization_name	Account_name	Account_No
Walker	40 Sheila LA Sparks, NV	Oaklanders Sound Studio	Miko Santo	4929331000575422