***Task 3.1***

Step *2*

Functions in Excel to count all the actors whose first name with “Ed.” is **=COUNTIF(actor[[#All];[first\_name]];"Ed")**

Yes, the SQL answer match the result from the excel count

I found both Excel and SQL statement easy to count the number of “Eds”.

But SQL statement is little more easier to count the texts as in a single query execution ,the output is displayed.

Step 3

1.Columns

|  |  |  |
| --- | --- | --- |
| payment\_id | customer\_id | staff\_id |
| rental\_id | amount | payment\_date |

2. table\_name

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| actor | store | address | inventory | staff |
| category | country | film\_actor | language | payment |
| city | customer | film\_category | rental | film |

3. Another way to list all the table names: Database→Rockbuster→Schemas→Tables.

4. Most movies(212) are rented for 6 days.

Step 4:

**OLAP System**

Sales Department – fetch data on sales in the previous year.

Customer Insights Department – find trends (for instance: most popular genre) over time

**.**

**OLTP System**

Customer Service – update customer information and transactions. Shipping Department – update order and shipping information

Step 5:

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

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Invoice #** | **Studio Name** | **Propertier name** | **Item** | **Qty** | **Description** | **SubTotal** | **Address** | **Account Details** |
| 2019001 | Oaklanders Studio | Mr.Timothy Walker | 001 | 01 | New Video Collection Licensing | 730 | 4826 Norma Avenue Anderson Tx | Name:Miko Santo  Account Number :4929331000575488 |