2.a there are three actors with the first name Ed. The answer is the same for SQL and Excel. I found it easier to use SQL because the process was faster once the program functioned properly.

A screenshot of a computer

Description automatically generated

A white screen with black lines

Description automatically generated with medium confidence

3.a payment\_id, customer\_id, staff\_id, rental\_id, amount, payment\_date.

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3.b table\_name options:

Actor, store, address, category, city, country, customer, film\_actor, film\_category, inventory, language, rental, staff, payment, film.

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A screenshot of a computer

Description automatically generated

3.c another way to list all of the names of tables it to go to Object Explorer-> Databases-> Rockbuster-> Schemas-> Tables

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3.d most films are rented for 6 days.

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4.a OLAP: Suitable for handling lots of data READ operations; Analytical and Data Mining System; Use case: ecommerce site, answering business questions like how many units were sold last month or how many items are left in stock

OLTP: Suitable for handling lots of data insertion, deletion, and update requests; Transactional System; Use case: ecommerce site recording and updating interactions like storing new customer order details or updating order shipment status.

5.a the data in the provided invoice is structured because it can be easily organized into respective columns (i.e., Item Number, Quantity, Description, Price, Customer Name, Invoice, and Address)

5.b

Invoice Data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Invoice\_# | First\_Name | Last\_Name | Customer\_Address | Item\_# | QTY | Description | Price |
| 2019001 | Timothy | Walker | 40 Sheila La Sparks, NV | 001 | 01 | New Video Collection Licensing | $730 |

Payment Information

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Invoice\_# | Organization | Org\_Address | Account\_Name | Account\_# |
| 2019001 | Oaklanders Sound Studio | 4826 Norma Avenue Anderson, TX | Mike Santo | 4929331999575422 |