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CareerFoundry DA Immersion  
Task 3.1

## Intro to PostgreSQL

2a.

Ed	Chase
Ed	Mansfield
Ed	Guinness

2c. As of right now, I found using Excel easier to find the Eds, just because I've been using it more recently. I definitely see how SQL statements would be easier for bigger queries, and just in general once I'm more familiar with the language.

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

3b. "actor"

"store"

"address"

"category"

"city"

"country"

"customer"

"film\_actor"

"film\_category"

"inventory"

"language"

"rental"

"staff"

"payment"

"film"

3c. Under Object Explorer.

Databases -> Rockbuster -> Schemas -> Tables

All from 3b are listed.

3d. Most films rented for 6 days.

4. OLAP, suitable for data READ operations, could be utilized by Marketing teams, to see the efficacy of a given marketing effort and resulting transactions. Accounting/Bookkeeping teams could use it as a check against their internal tracking measures. It could also be utilized by the Analytics department to support inquiries from the above teams.

OLTP, suitable for INSERTION, DELETION, and UPDATE requests, would be suitable for teams affiliated with customer service/subscribers, as they would need to check for compliance and update subscriber information upon signup or cancellation. It could also be utilized by more infrastructure/backend facing teams like Data Engineering and Information Technology, who are responsible for setting up and maintaining the infrastructure of the databases.

5. This invoice contains mostly structured data: ITEM #, QTY, PRICE, INVOICE #, PAYEE Address, PAYMENT ACCT NAME and NO, etc. Description could be considered unstructured data.

Invoice #	Item #	QTY	Description	Price (USD)	Subtotal (USD)	PAYER_first_name	PAYER_last_name	PAY
2019001	001	1	'New Video Collection Licensing'	730	730	Timothy	Walker	40 S

Could also create columns for PAYEE information (Business name, Address, City, State, Account name, account #) if there were several payees in this scenario.