

## Step 2

- Excel count: 3
- SQL count: 3
- It was easier to use SQL for this because the query only returns the information I requested.

## Step 3

- Payment\_id, customer\_id, staff\_id, rental\_id, amount, payment\_date
- actor, store, address, category, city, country, customer, film\_actor, film\_category, inventory, language, rental, staff, payment, film
- SELECT table\_name FROM information\_schema.table  
WHERE table\_schema = 'public'  
AND table\_type = 'BASE TABLE'
- 6 days

## Step 4

- OLAP system:
  - The marketing department could use this to look at what impacts their advertising has on customer actions.
  - Buying teams could use this to determine which movies to put in stores and how many copies they'll need.
- OLTP system:
  - Stores would use this as part of their check-out/check-in system to log each video rental and return by each customer.
  - Inventory teams could use this to input new videos into their system and record the quantity, as well as remove videos stores have stopped carrying.

## Step 5

- This is unstructured data because it's an invoice from an email or piece of paper.
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Vendor	Vendor Address	Account Name	Account Number	Invoice Number	Invoice Description	Invoice Total
Oaklanders	4826 Norma Avenue, Anderson, TX	Miko Santo	4929331000575420	2019001	New video collection licensing	\$ 730.00