3.1 Intro to Relational Databases

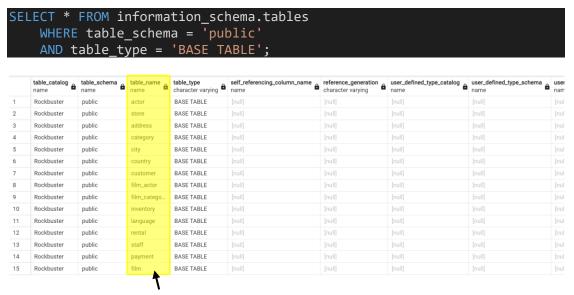
1. Count of first name "Ed" (excel function) 3

2. Excel vs SQL - what was easier to use?

For me it is more intuitive to use the excel filter and count function than the SQL query but as soon as it gets more complex the SQL becomes simpler and faster to use.

3. SQL Queries

SELECT * FROM payment LIMIT 10;						
	payment_id [PK] integer	customer_id smallint	staff_id smallint	rental_id integer	amount numeric (5,2)	payment_date timestamp without time zone
1	17503	341	2	1520	7.99	2007-02-15 22:25:46.996577
2	17504	341	1	1778	1.99	2007-02-16 17:23:14.996577
3	17505	341	1	1849	7.99	2007-02-16 22:41:45.996577
4	17506	341	2	2829	2.99	2007-02-19 19:39:56.996577
5	17507	341	2	3130	7.99	2007-02-20 17:31:48.996577
6	17508	341	1	3382	5.99	2007-02-21 12:33:49.996577
7	17509	342	2	2190	5.99	2007-02-17 23:58:17.996577
8	17510	342	1	2914	5.99	2007-02-20 02:11:44.996577
9	17511	342	1	3081	2.99	2007-02-20 13:57:39.996577
10	17512	343	2	1547	4.99	2007-02-16 00:10:50.996577



Names of tables available

Samira Stragiotti

pg.Admin File v Object v Tools v

▼ PostgreSQL 14

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■ Databases (2) →

■ Rockbuster

> 69 Casts

> * Catalogs > C Event Triggers

> fil Extensions > Foreign Data Wrappers

> Languages

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v Schemas (1)

> 🖷 Aggregates

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> FTS Configurations

> TS Dictionaries

> Aa FTS Parsers

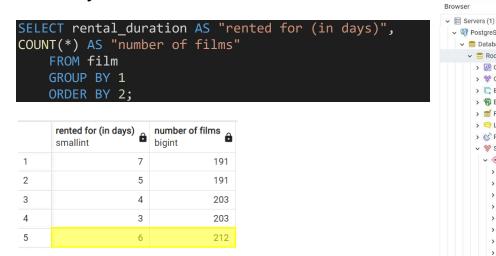
> 🗣 Operators

> 1..3 Sequences → Tables (15)

> FTS Templates > Foreign Tables > (a) Functions > 🧓 Materialized Views

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Other way to see the table names:



How many days are most films rented for? 6 Days

4. OLAP vs OLTP - 2 situations for each type

OLTP

> 🗎 actor

OLAP can be used for storing log data or all the videos because they'd only be used for READ operations (trends, most rented films, ...).

OLAP

OLTP could be useful to store customer data, e. g. subscription data or make a new booking.

5. Invoice

Structured or unstructured data?

Structured data – it can be organized and stored in a database.

Organize and store the information on the invoice in a database. Table contain columns with the appropriate labels, as well as the values from the invoice in each column. You're focusing, here, on a high-level structuring of your data.

Transaction

Tansaction						
InvoiceID (number)	ItemID (number)	Quantity (number)	Description (text)	Price (number)		
2019001	1	1	New Video Collection Licensing	\$730		

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Supplier

Name (text)	Address (text)	City (text)	State (text)	Account name (text)	Account number (number)
Oaklanders	4826 Norma Avenue	Anderson	TX	Miko Santo	4929331000575422

Customer

- · · · · · · · · · · · · · · · · · · ·						
FirstName	LastName	Address	City	State		
Timothy	Walker	40 Sheila La	Sparks	NV		