# Cleaning a PostgreSQL Database



In this project, you will work with data from a hypothetical Super Store to challenge and enhance your SQL skills in data cleaning. This project will engage you in identifying top categories based on the highest profit margins and detecting missing values, utilizing your comprehensive knowledge of SQL concepts.

### **Data Dictionary:**

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Column	Definition	Data type	Comments
row_id	Unique Record ID	INTEGER	
order_id	Identifier for each order in table	TEXT	Connects to order_id in returned_orders table
order_date	Date when order was placed	TEXT	
market	Market order_id belongs to	TEXT	
region	Region Customer belongs to	TEXT	Connects to region in people table
product_id	Identifier of Product bought	TEXT	Connects to $\begin{bmatrix} product\_id \end{bmatrix}$ in $\begin{bmatrix} products \end{bmatrix}$ table
sales	Total Sales Amount for the Line Item	DOUBLE PRECISION	
quantity	Total Quantity for the Line Item	DOUBLE PRECISION	
discount	Discount applied for the Line Item	DOUBLE PRECISION	
profit	Total Profit earned on the Line Item	DOUBLE PRECISION	

#### returned\_orders:

Column	Definition	Data type
returned	Yes values for Order / Line Item Returned	TEXT
order_id	ldentifier for each order in table	TEXT
market	Market order_id belongs to	TEXT

## people:

Column	Definition	Data type
person	Name of Salesperson credited with Order	TEXT
region	Region Salesperson in operating in	TEXT
region	Region Salesperson in operating in	TEXT

## products:

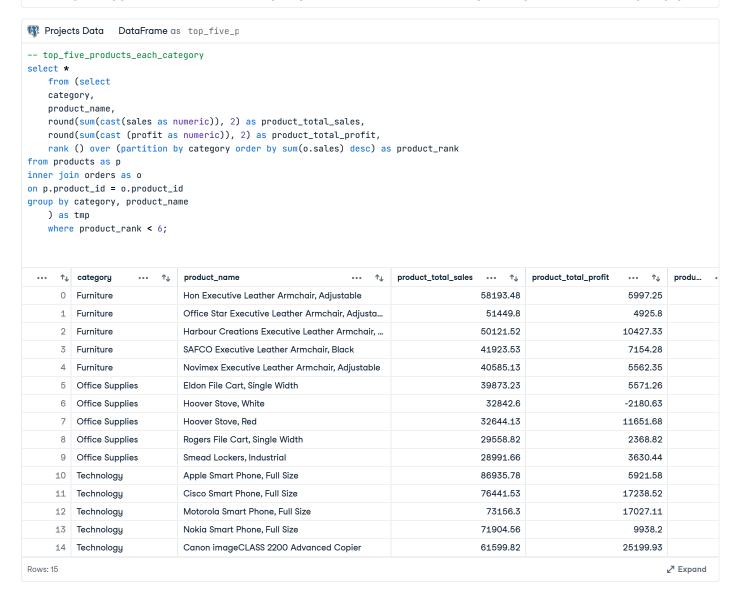
Column	Definition	Data type

How likely are you to recommend DataLab to a friend or co-worker?

Not at all likely 0 1 2 3 4 5 6 7 8 9 10 Extremely likely

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As you can see in the Data Dictionary above, date fields have been written to the orders table as TEXT and numeric fields like sales, profit, etc. have been written to the orders table as Double Precision. You will need to take care of these types in some of the queries. This project is an excellent opportunity to apply your SQL skills in a practical setting and gain valuable experience in data cleaning and analysis. Good luck, and happy querying!



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