

# Project Details

---

## Query a Database

### Learning Objectives

You are to query a relational database to extract desired information. You can write SQL queries that include joins, aggregations, and subqueries. You are to display your analysis effectively through data visualizations using Tableau.

### Business Scenario

You're a BI analyst for a wholesaler of various food products. You're in charge of putting together analytics dashboards for management. They have requested that you focus on one area of the business and create a dashboard that provides various summary statistics related to that area.

Select one of the following areas. Create a presentation with visualizations that provides high level summary information about that area.

- Customers
- Suppliers
- Products
- Employees

### Database

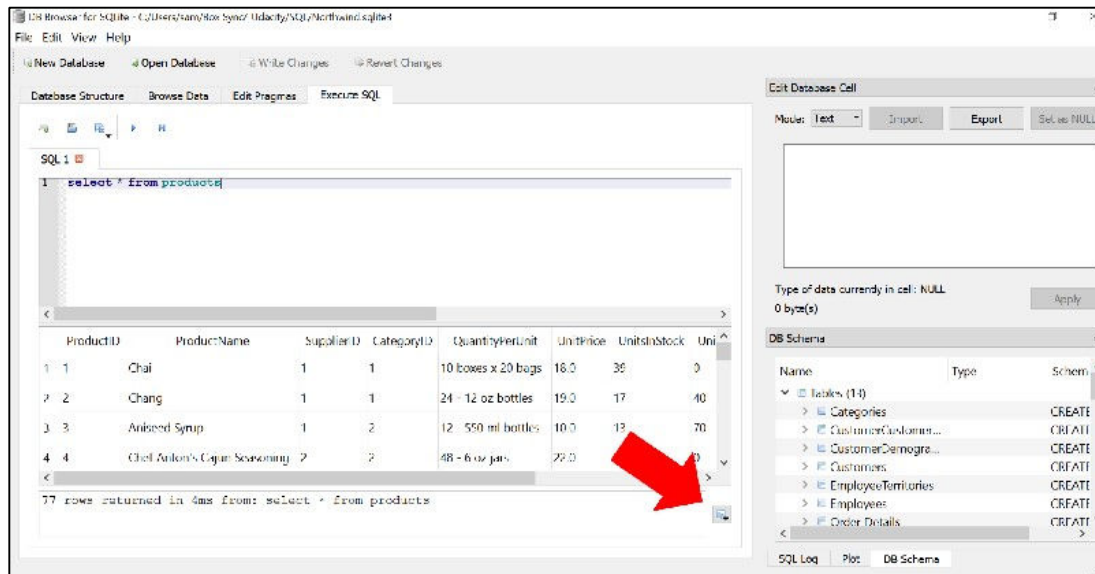
If you are using DB Browser for SQLite:

- Click open database at the top of the interface.
- Navigate to and open the database. Spend a few moments to explore and understand the data.

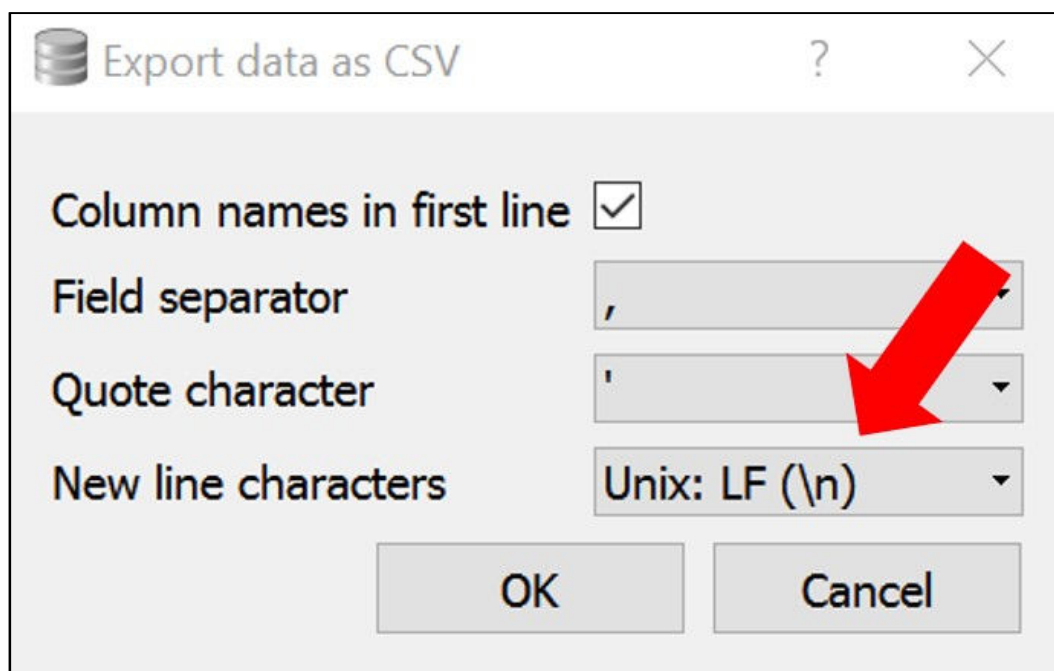
## Visualizations

After exporting your dataset as a CSV file to your local device, use Tableau to create a visual for each question.

To export the results of your queries from DB Browser, use the button below and to the right of the results window.



Select Export to CSV, and then select the settings that match the ones below. Make sure your setting on **New line characters** is set to **Unix: LF(\n)**.



## Presentations

---

Your presentation should include:

Six slides

- One visualization per slide
- A 1-2 sentence explanation of each slide
- The SQL query used to create the data used in the visualization.
- 

### Queries

Please include a text that includes each of the queries used to create the visualizations.

### Additional Guidelines

- There shouldn't be any additional data prep (sorting, filtering, renaming, etc.) between the query output and the visualization.
- All your four queries must include a join and an aggregation.
- At least one of your queries includes a subquery.
- Once you've finished your project, submit the presentation and the queries as a PDF.

## Business Questions

1. Who are our top 10 customers and how much have they spent and ordered?
2. What are our top customers' favorite products?
3. Where are our customers mostly located, and how much is the total spend per country?
4. What are our top 10 most popular products?
5. Who are the suppliers for our most popular products?
6. Who are our top 15 best performed Employees?