

DATA MANAGEMENT

Team Exercise #4 – SQL Querying

In today's exercise your team will prepare and submit a set of SQL queries, based on the Rock & Roll and World database examples in class.

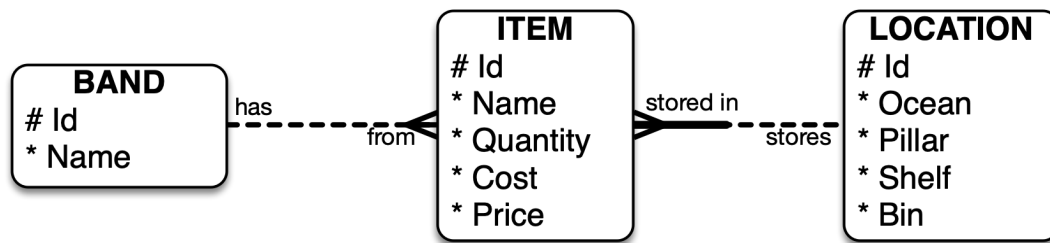
To get the full benefit of this exercise, I'd recommend people spend some time *individually* to answer the following, before working together as a team. Once everyone has basically caught up, meet in breakouts and take turns volunteering your answers to the following questions. Collect feedback from teammates to fix errors.

1. Use a text editor (e.g., ATOM) to write CREATE and INSERT queries to create the Rock & Roll DB (slides from the session will be posted on Learn momentarily). Test your code by copying-and-pasting it into the SQL window in XAMPP.
 - *Note #1: Add a semi-colon (;) after each SQL command, since this makes it much easier to re-use (copy-paste) and test your code.*
 - *Note #2: To comment your code, start the comment using a hashtag (# comment), a dash-dash-space (-- comment), or enclose using slash-asterisk (/ * comment * /).*
2. Write and test SQL queries on the test inventory to answer the following questions:
 - Cost and price of every U2 item?
 - Total number of each item in inventory?
 - Total cost and profit potential of entire inventory?
 - List showing name, location, and profit margin for every item, highest margin first?
 - Ratio of total item count in shelves 1-3 over 4-6?
3. Write and test SQL queries on the World DB to answer the following questions:
 - List all cities in reverse alphabetic order.
 - What is the total population of all countries in the database?
 - How many countries have a GNP > \$1T? (NB: GNP data are stored in millions.)
 - List names and GNP of all countries, shown in trillions, in ascending order.
 - What is the official language of Uzbekistan?
 - What is the average life expectancy of Spanish-speaking countries?
 - List the two countries with the lowest and highest life expectancies.
 - List the Spanish-speaking countries whose life expectancy is higher than the average of all Spanish-speaking countries?

One volunteer should collect the queries into a single SQL text file and **submit your file as a Learn assignment** on behalf of your team.

Due tomorrow at 11:59 pm.

Rock & Roll



World

