MySQL – Relational Databases: Workshop 4 (JOINS)

Workshop contents:

- Running a script in MySQL Workbench to create the workshop database
- Writing SELECT queries combining data from 2 or more tables (JOIN)
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Creating the workshop database tables:

1. Download the file "small_company_db.sql" from Canvas and save it your desktop. Open the file with Notepad++ and make sure you understand all the SQL queries it contains. Make sure you also understand the structure of the database tables being created.
2. Using MySQL Workbench, open a connection to your MySQL (Azure) database
3. In MySQL Workbench, manually delete all tables from your database (tables from previous workshop)
4. Import the new SQL file to create the new database tables and data used in this workshop

Running queries in MySQL Workbench: SELECT with: INNER JOIN, LEFT JOIN, RIGHT JOIN

For each of the items below, write a query that returns …

1. The project id, project name, person id working in the project, for all projects in the database

2. The department name and the amount of persons working in each department. HINT: you will need to use the aggregate function Count() and GROUP BY

3. For each project: the project name, the current amount of actual hours (sum from all persons), and sum of planned hours (sum from all persons working on the project)

4. Write a query that allows you to identify the project names with no persons working on it. Note, your query can return other results than the one you are specifically looking for. From the results however, you will be able to find your answer. HINT: one possible solution can be written using "PROJECT_PERSON RIGHT JOIN PROJECT