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COS 457 - Database Systems

### Project Part 2 Writeup

The database runs on a MySQL 8.0 server, so all syntax should be valid under those constraints.

To initialize the database and tables, execute the `create_tables.sql` file. This should create the schema “bridgedb”, and the tables “board”, “hands”, “player”, “playstable”, “round”, “tableentity”, “team”, “trick”.

Data was imported using MySQL Workbench 8.0 CE. To import data this way, right click the table and select “Table Data Import Wizard” then specify the file path for the appropriate CSV file. CSV files generated by the provided Python scripts have the same name as the given table, with the exception of the table “tableentity”, which takes “table.csv” as input. CSV files should be imported in the following order to maintain foreign key constraints: `team.csv` → `player.csv` → `round.csv` → `board.csv` → `table.csv` → `plays_table.csv` → `trick.csv` → `hands.csv`. Before importing `table.csv`, the following SQL command should be executed: `SET FOREIGN_KEY_CHECKS=0;`. This is necessary because `tableentity` has a self-referential foreign key constraint. After importing `table.csv`, run the following SQL command to reinstate foreign key checks: `SET FOREIGN_KEY_CHECKS=1.`

### Member Roles

Alex: Query debugging, workbench testing, presentation production

Evan: Git repository setup, `create_tables.sql`, `crawler.py`, data import, a few queries, presentation production.

Corey: `linparser.py`, `parser_classes.py`, data README file, writeup PDF, a few queries.