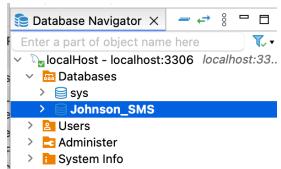
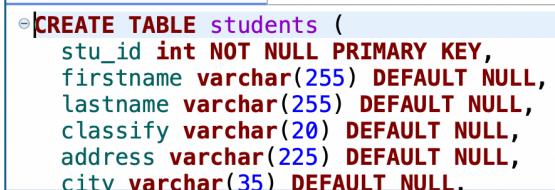


1. Open dBeaver and create a connection to the MySQL database engine. HOW TO: <https://dbeaver.com/docs/dbeaver/Create-Connection/>
2. Open a SQL script window to use for running the SQL Script files. HOW TO: Highlight your new connection I.E., 'localhost – localhost:3306'
 - a. Right click (Mac: <CTRL>-Click) to a pop-up menu: 'SQL Editor'
 - b. Click 'SQL Editor' and then 'New Script'
 - c. Press enter and now you have a scripting window for execution of SQL queries to MySQL.
3. Create a database named: 'your <lastname> _SMS' replace '<lastname>' with correctly spelled lastname, e.g., 'Johnson_SMS' is my database. This is done by typing the 'Create Database' <lastname>_SMS command into the SQL Editor window and running. Alternatively, you can use the GUI and Right-click in the Navigator (left side) and select 'Create Database'.
4. Set your new database as the 'default' database in dBeaver.
 - a. Right click (Mac: <CTRL>-Click) on your new database in 'Database Navigator' (left) pane. (for me it is 'Johnson_SMS')
 - b. Click 'Set as default'
 - c. You should see something like this where your database is in **BOLD**:
5. Write and run an SQL command script to create a new table called 'students' that contains these following columns:
 - a. stu_id INT (Make it not null and primary key)
 - b. firstname VARCHAR(255) (Student's first name)
 - c. lastname VARCHAR(255) (Student's last name)
 - d. classify VARCHAR(20) (Student's classification.)
 - e. address VARCHAR(255) (Student's mailing address in US)
 - f. city VARCHAR(35) (Student's US city)
 - g. state CHAR(2) (Student's US state abbreviation)
 - h. zip VARCHAR(15) (Student's US zip code allowing for dash '-' and 4-digit code)
 - i. dept_id VARCHAR(4) (Department code where the student's major is declared)
 - j. Start like I did mine in dBeaver:

```

CREATE TABLE students (
  stu_id int NOT NULL PRIMARY KEY,
  firstname varchar(255) DEFAULT NULL,
  lastname varchar(255) DEFAULT NULL,
  classify varchar(20) DEFAULT NULL,
  address varchar(255) DEFAULT NULL,
  city varchar(35) DEFAULT NULL,
)

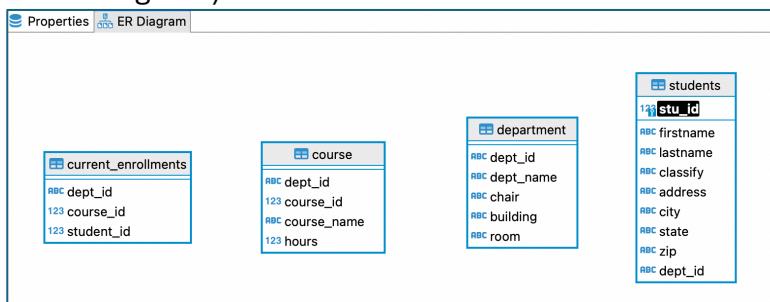
```

6. Run the script by clicking the 'multiple script file' icon shown here:



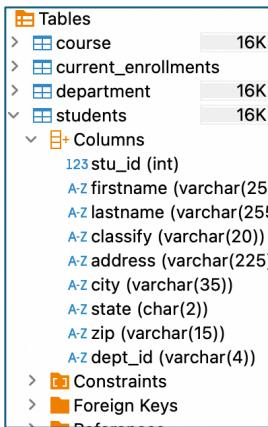
7. Write and run an SQL command script to create a new table called 'department' that contains these following columns:
 - a. dept_id VARCHAR(4) (Make it not null)
 - b. dept_name VARCHAR(32) (Name of the department)
 - c. chair VARCHAR(256) (Name of the chair)
 - d. building VARCHAR(32)
 - e. room VARCHAR(32)

8. Write and run an SQL command script to create a new table called 'current_enrollments' that contains these columns:
 - a. dept_id VARCHAR(4)
 - b. course_id INT (Course the student is enrolled in)
 - c. student_id INT (Student enrolled in the course)
9. Write and run an SQL command script to create a new table called 'course' that contains these following columns:
 - a. dept_id VARCHAR(4)
 - b. course_id INT
 - c. course_name VARCHAR(255) (Name of the course)
 - d. hours INT (Number of credit hours the course carries)
10. These are the new tables viewed from dBeaver's 'View Diagram' option. (Right click on database name in the navigator.)



Note: we do not have any primary/foreign key connections among the tables.

- a. each individual table's column listing (4 tables). Example for table students:



- b. Upload five (5) images (4 tables, one dB Schema diagram) to be graded. (You can put them all in a word or PDF file or upload individually as images) Only PNG, JPEG, WebP, Docx, and PDF are accepted.

11. Run the script file in dBeaver to populate the tables: Lab3_Create_Datum.sql

No need to check data, just preparing for a future lab.