CSCD 327 Lab 1

Dustin Randall

January 9, 2026

1 Create student table(ID, name, major, city, state)

```
1  CREATE TABLE student(
2    ID int,
3    name varchar(20),
4    major varchar(20),
5    city varchar(20),
6    state char(2),
7    primary key(ID)
8    )
```

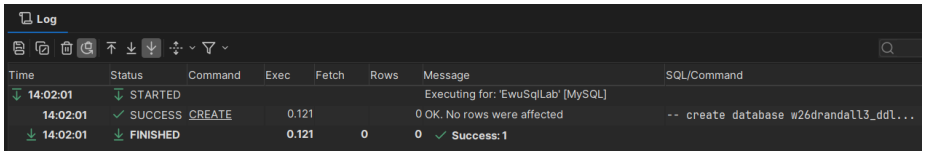

Figure 1: Creating the student table

2 Create department table where dept_name is unique.

```
1  CREATE TABLE department(
2    dnumber int,
3    dept_name varchar(20) unique,
4    building varchar(20),
5    primary key(dnumber)
6    )
```

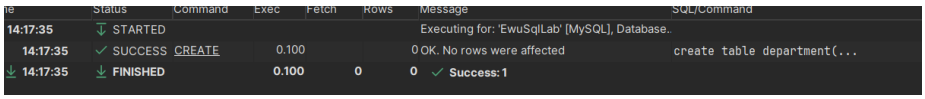

Figure 2: Creating the department table

3 Split name into first and last name

```
1 ALTER TABLE student
2  ADD first_name varchar(20),
3  ADD last_name varchar(20),
4  DROP name
```

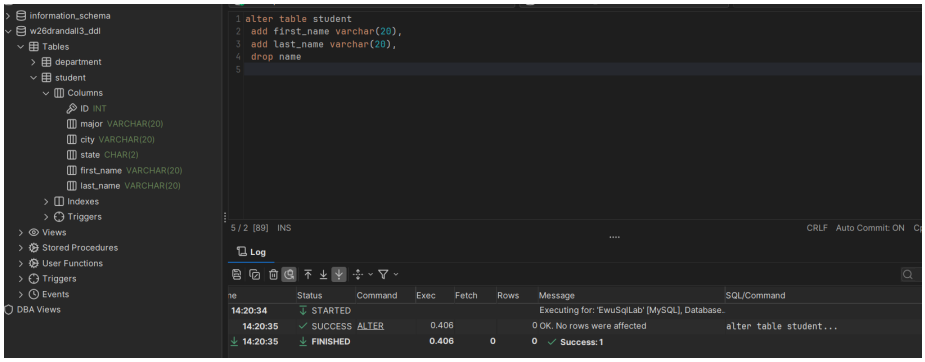

Figure 3: Rename the student table

4 Add foreign key to the department table's dnumber

```
1  ALTER TABLE student
2  ADD dnumber int,
3  ADD constraint fk_constraint foreign key(dnumber) references department(dnu
```

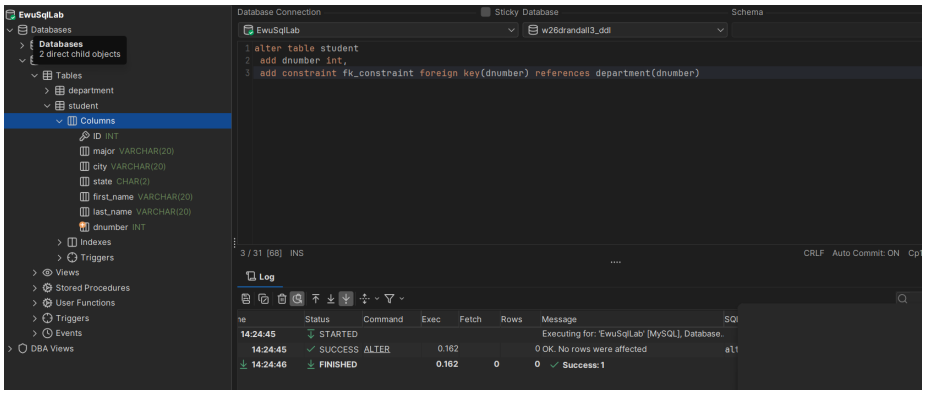

Figure 4: Adding foreign key to the student table

5 Rename student table to student_details

```
1  RENAME TABLE student TO student_details
```

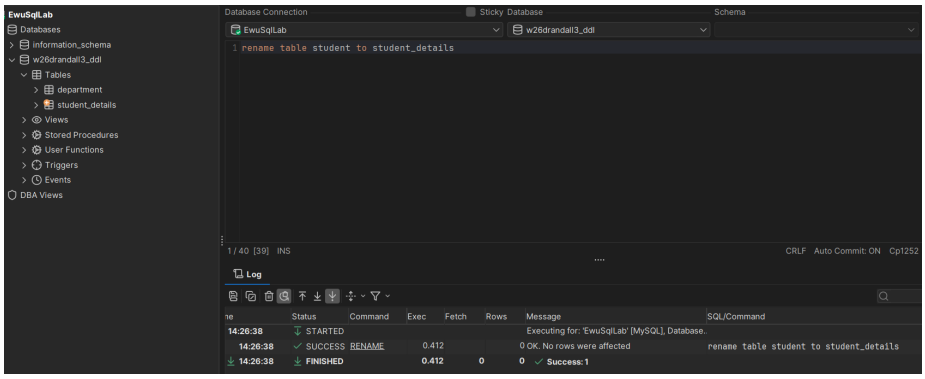

Figure 5: Rename the student table

6 Retrieve the details of the columns of student_details

```
1  DESCRIBE student_details
```

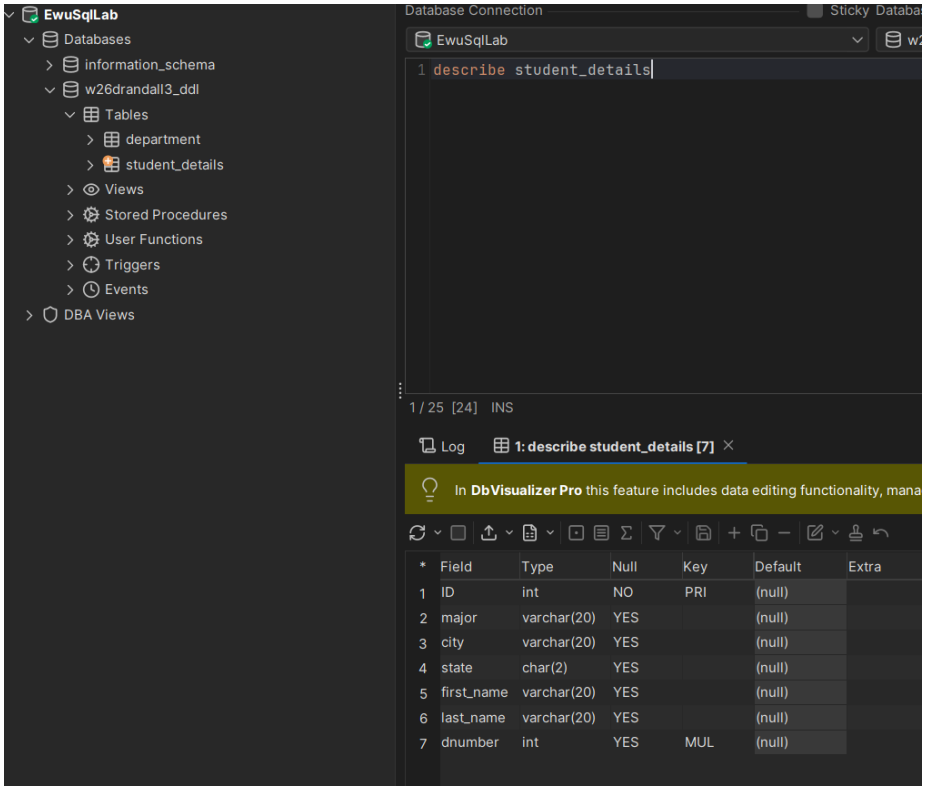

Figure 6: Describe student_details

7 Delete both tables

```
1  DROP TABLE student_details, department
```

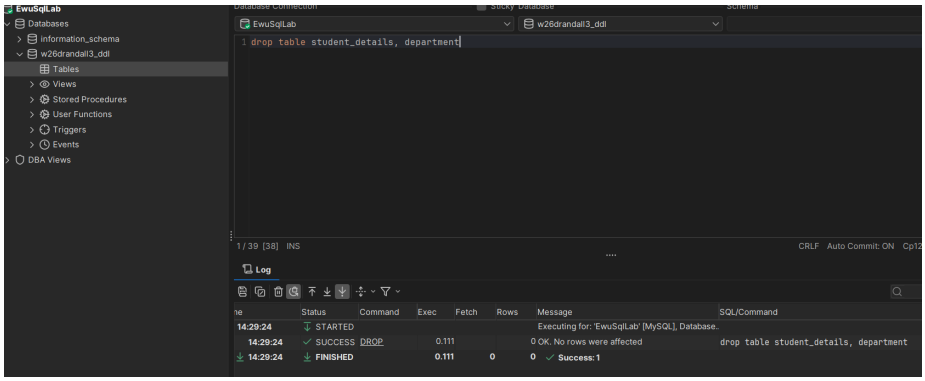

Figure 7: Drop both tables