

CSCD 327 Lab 1

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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 )
```

Log						
Time	Status	Command	Exec	Fetch	Rows	Message
↓ 14:02:01	↓ STARTED					Executing for: 'EwUsqlLab' [MySQL]
14:02:01	✓ SUCCESS	CREATE	0.121		0	0 OK. No rows were affected
↓ 14:02:01	↓ FINISHED		0.121	0	0	✓ Success:1

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 )
```

#	Status	Command	Exec	Fetch	Rows	Message	SQL/Command
14:17:35	↓ STARTED					Executing for: 'EwuSqlLab' [MySQL], Database...	
14:17:35	✓ SUCCESS	CREATE	0.100			0 OK. No rows were affected	create table department(...
14:17:35	↓ FINISHED		0.100	0	0	✓ Success:1	

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
```

The screenshot shows the MySQL Workbench interface. On the left, the schema browser displays the structure of the 'w26drandal3_3_dd' database, specifically the 'student' table. The table has columns: ID (INT), major (VARCHAR(20)), city (VARCHAR(20)), state (CHAR(2)), first_name (VARCHAR(20)), and last_name (VARCHAR(20)). On the right, a log window shows the execution of the provided SQL code. The log table has columns: time, status, command, exec, fetch, rows, message, and SQL/Command.

time	status	command	exec	fetch	rows	message	SQL/Command
14:20:34	STARTED					Executing for: 'EwuSqlLab' [MySQL] Database.	
14:20:35	SUCCESS	ALTER	0.406		0	OK. No rows were affected	alter table student...
14:20:35	FINISHED		0.406		0	Success:1	

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
```

The screenshot shows the EwuSqlLab interface. On the left, the database structure is displayed with 'student' selected. Under 'student', 'Columns' is expanded, showing columns: id (INT), major (VARCHAR(20)), city (VARCHAR(20)), state (CHAR(2)), first_name (VARCHAR(20)), last_name (VARCHAR(20)), and dnumber (INT). In the center, the SQL editor contains the following code:

```
1 alter table student
2 add dnumber int,
3 add constraint fk_constraint foreign key(dnumber) references department(dnumber)
```

Below the SQL editor, the log window shows the execution details:

Time	Status	Command	Exec	Fetch	Rows	Message	SQL
14:24:45	STARTED					Executing for: 'EwuSqlLab' [MySQL] Database.	
14:24:45	SUCCESS	ALTER	0.162		0	OK. No rows were affected	alt
14:24:46	FINISHED		0.162	0	0	Success:1	

Figure 4: Adding foreign key to the student table

5 Rename student table to student_details

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

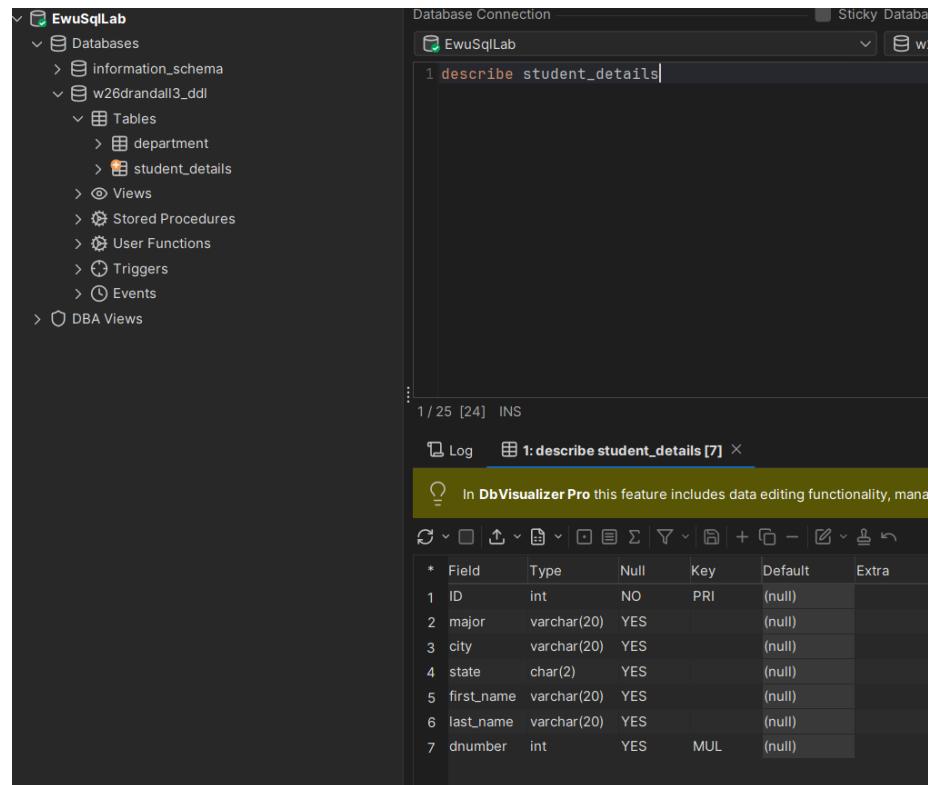
The screenshot shows the EwuSqlLab application interface. On the left is a tree view of the database schema under the 'EwuSqlLab' database, including 'information_schema', 'w26drandal3.ddl' (selected), 'Tables' (containing 'department' and 'student_details'), and other objects like 'Views', 'Stored Procedures', 'User Functions', 'Triggers', and 'Events'. On the right, the main area displays the SQL command: '1 rename table student to student_details'. Below this, the status bar shows '1 / 40 [38] INS' and 'CRLF Auto Commit: ON Cpt125'. A 'Log' tab is open, showing the execution details:

Time	Status	Command	Exec	Fetch	Rows	Message	SQL/Command
14:26:38	STARTED					Executing for: 'EwuSqlLab' [MySQL] Database.	
14:26:38	SUCCESS	RENAME	0.412			0 Ok. No rows were affected	rename table student to student_details
14:26:38	FINISHED		0.412	0	0	Success:1	

Figure 5: Rename the student table

6 Retrieve the details of the columns of student_details

1 DESCRIBE student_details



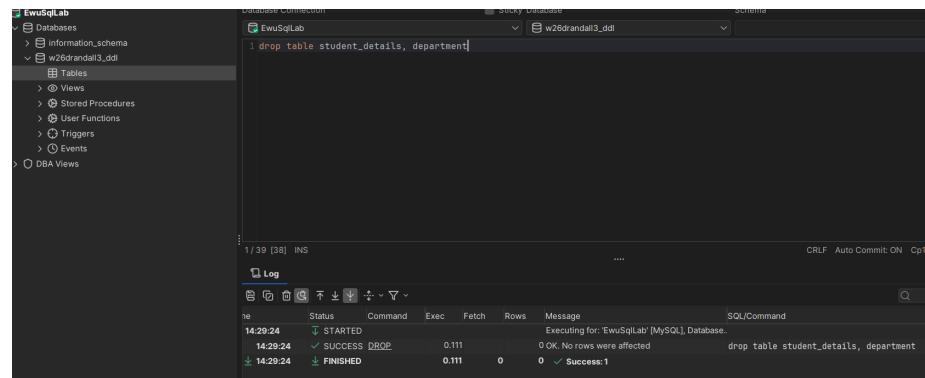
The screenshot shows the DbVisualizer Pro interface. On the left is a tree view of the database schema under 'EwuSqlLab'. Under 'Tables', 'student_details' is selected. The main pane displays the results of the 'DESCRIBE student_details' command. A status bar at the bottom indicates '1/25 [24] INS'. The results table has the following data:

* Field	Type	Null	Key	Default	Extra
1 ID	int	NO	PRI	(null)	
2 major	varchar(20)	YES		(null)	
3 city	varchar(20)	YES		(null)	
4 state	char(2)	YES		(null)	
5 first_name	varchar(20)	YES		(null)	
6 last_name	varchar(20)	YES		(null)	
7 dnumber	int	YES	MUL	(null)	

Figure 6: Describe student_details

7 Delete both tables

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



The screenshot shows the MySQL Workbench interface. On the left, the 'Schemas' tree view shows the 'EwuSqlLab' database selected, with the 'w26drandal3_ddl' schema expanded to show 'Tables'. In the center, the 'SQL' tab contains the command: 'drop table student_details, department;'. Below the SQL tab is a log window titled 'Log' which displays the execution details:

Time	Status	Command	Exec	Fetch	Rows	Message	SQL/Command
14:29:24	STARTED					Executing for: 'EwuSqlLab' [MySQL] Database.	
14:29:24	SUCCESS	DROP	0.111		0	0 OK. No rows were affected	drop table student_details, department
14:29:24	FINISHED		0.111		0	✓ Success:1	

Figure 7: Drop both tables