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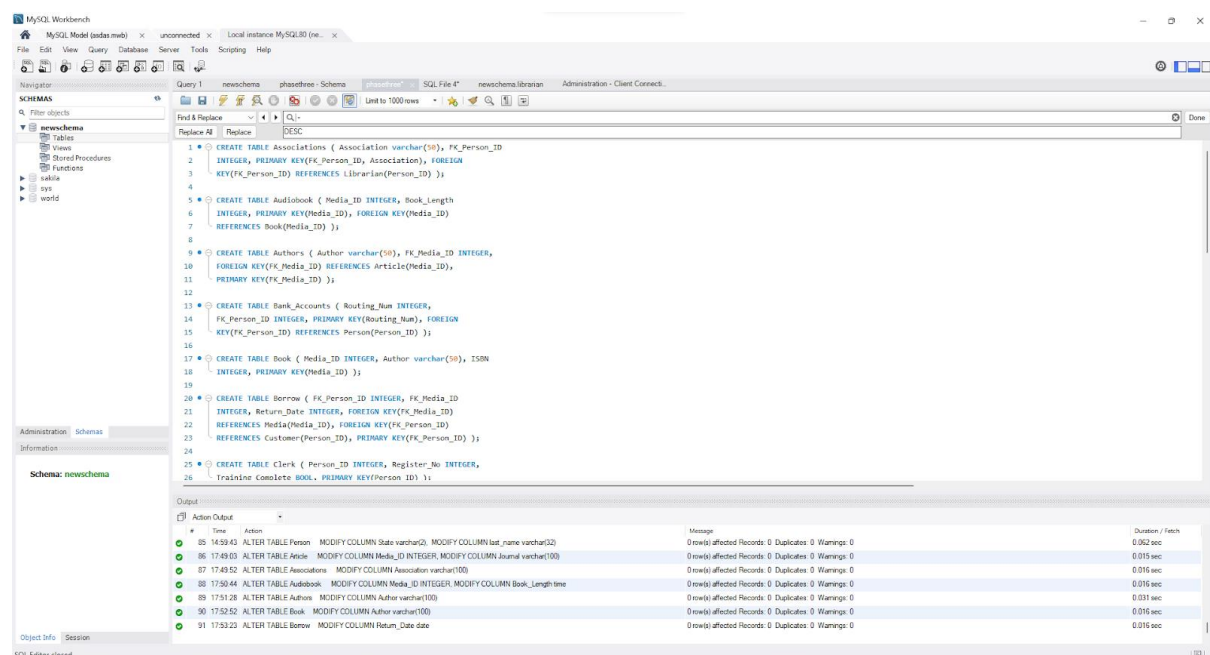
Software Discovery

Software:

Initially, we decided to use DB Browser. It was the obvious choice since we both had some (albeit marginal) experience using, and since Harry had already installed it onto his computer in a previous course. After using DB Browser for a while, we discovered some issues with the software, such as problems saving the project and a lack of the Boolean data type. Although these were problems that we could have worked around, we decided that since we were in the early stage of phase 3, it would be easier to just find a software that suited our needs better. We settled on MySQL. MySQL had everything we needed to do this portion of the project, and although its functionality was a little overwhelming at first, it is pretty intuitive — and more importantly well-documented — which led us to make the decision to stick with it. MySQL offers a graphical user interface as well as the option to write raw SQL. Our exact set up is the CE MySQL Workbench 8.0.34 for the client with CE MySQL Server 8.2.0 for the database hosting.

Citation: MySQL Workbench Version 8.0.34. Oracle Corporation, 2023

Software Screenshot:



Common Commands:

Create Table:

Creates a table with the specified name and fields.

```
mysql> CREATE TABLE table1 (field1 VARCHAR(100), field2 INT, field3 DATE);
```

Drop Table:

Drops all of the tables that are listed

```
mysql> DROP TABLE table1 [, table2 ] [, table3] ... ;
```

Show:

Lists all tables in the current database

```
mysql> SHOW TABLES;
```

Tables in db1	
tb1	
tb2	

Describe:

Shows all the fields in a table as well as their default values, if they are allowed to be NULL and other information.

```
mysql> DESCRIBE table1;
```

Field	Type	Null	Key	Default	Extra
field1	varchar(100)	YES		NULL	
field2	int	YES		NULL	
field3	date	YES		NULL	

Select:

Selects the provided fields from a chosen table. It is possible to add a WHERE statement in order to add a condition on which the fields are selected.

```
mysql> SELECT field1, field2 INTO @x, @y FROM table1 LIMIT 1;
```

Insert:

Inserts the provided values into the provided columns. If a value is to be added to every column then the columns may be omitted.

```
mysql> INSERT INTO table (field1, field2, ... fieldn) VALUES (val1, val2,... valn);
```

Delete:

Deletes rows from the table based on the provided condition

```
mysql> DELETE FROM table1 WHERE f1 = 1;
```

Update:

Updates the selected columns based on the provided condition

```
mysql> UPDATE tb1 SET f1 = val1, f2 = val2, ... WHERE f1 = 1;
```