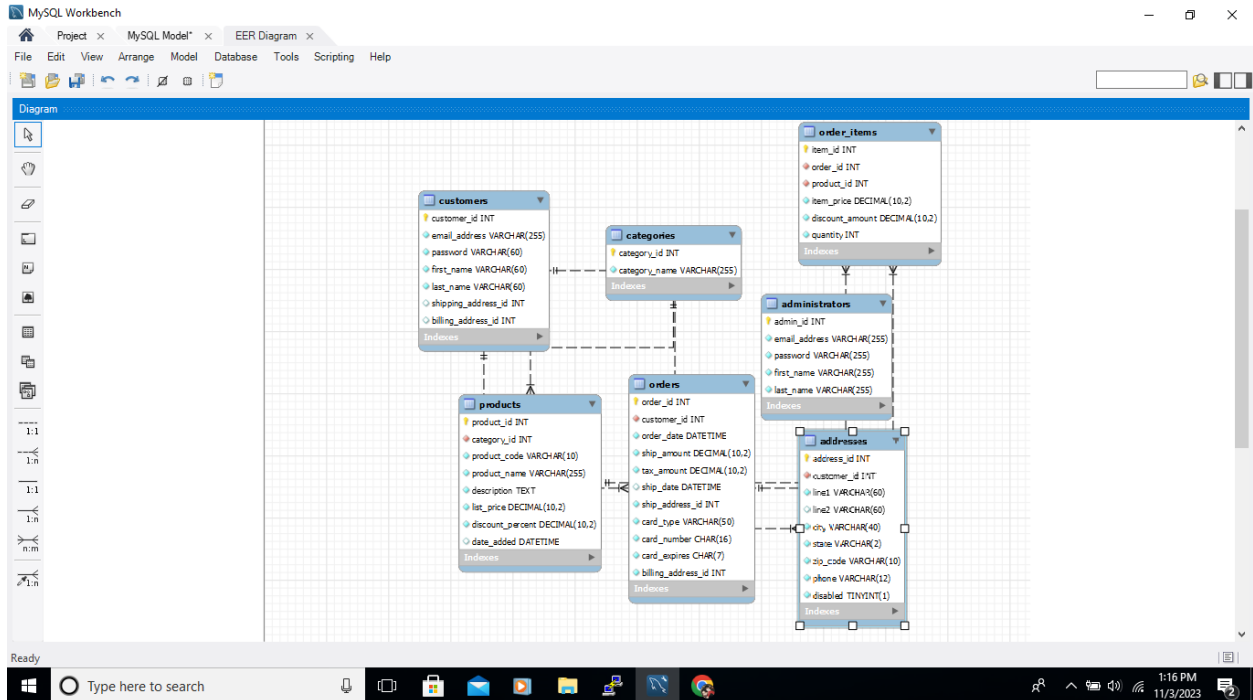
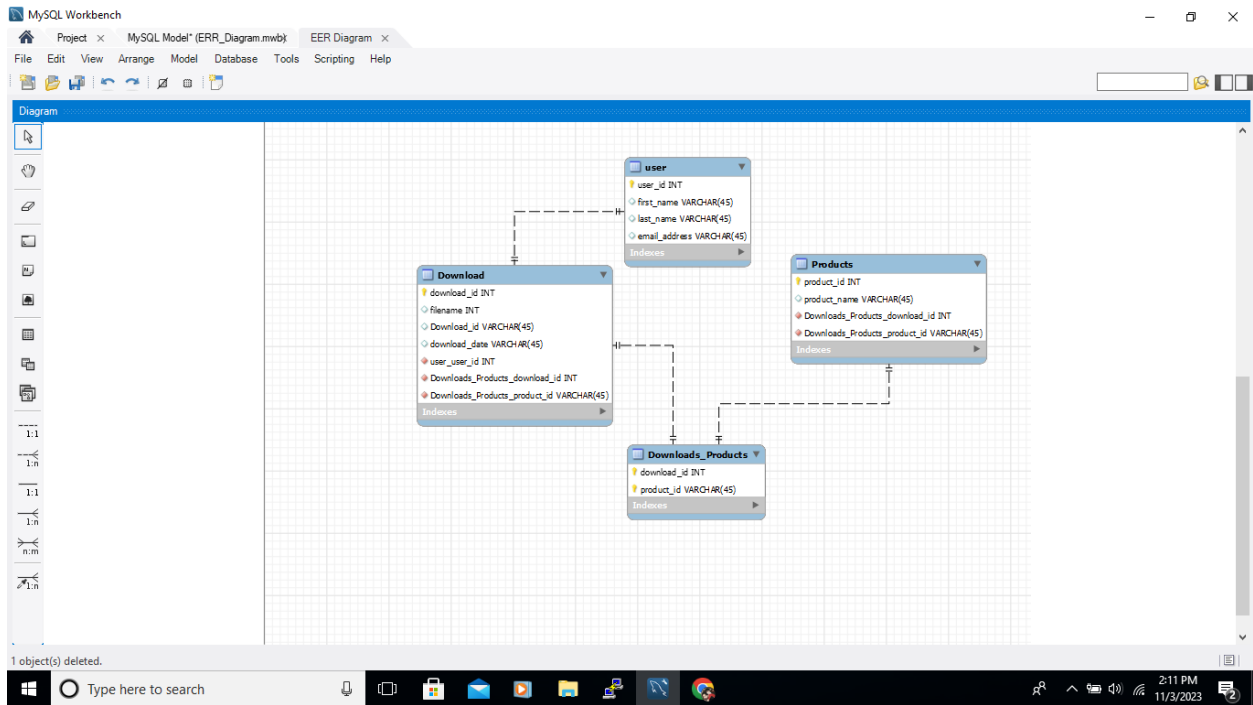


1. Use MySQL Workbench to create an EER model from the script file named `create_my_guitar_shop.sql` that's in the `mgs_ex_starts` folder. From the model, create an EER diagram that shows the relationships between the seven tables in the database. (The administrators table is not related to the other six tables.)



2. Use MySQL Workbench to create an EER model for a database that stores information about the downloads that users make. (When you create the EER model, it will be given a default name of `mydb`. For this exercise, it's not necessary to change this name.) Define the tables that are necessary to implement this data structure: Each user must have an email address, first name, and last name. Each user can have one or more downloads. Each download must have a filename and download date/time. Each product can be related to one or more downloads. Each product must have a name. When you're done defining the tables, create a diagram for the database. Then, use the diagram to define the required relationships. When you do that, be sure to use the relationship button that uses existing columns.



3. Use MySQL Workbench to open the EER model that you created in exercise 2. Then, export a script that creates the database. Use all the default options, and save the script in a file named ex10-3.sql. Next, use MySQL Workbench to open this file and review it.

```

1  -- Create the 'Users' table
2  CREATE TABLE Users (
3      user_id INT AUTO_INCREMENT PRIMARY KEY,
4      email_address VARCHAR(255) NOT NULL,
5      first_name VARCHAR(60) NOT NULL,
6      last_name VARCHAR(60) NOT NULL
7  );
8
9  -- Create the 'Downloads' table
10 CREATE TABLE Downloads (
11     download_id INT AUTO_INCREMENT PRIMARY KEY,
12     filename VARCHAR(255) NOT NULL,
13     download_datetime DATETIME NOT NULL,
14     user_id INT NOT NULL,
15     FOREIGN KEY (user_id) REFERENCES Users(user_id)
16 );
17
18 -- Create the 'Products' table
19 CREATE TABLE Products (
20     product_id INT AUTO_INCREMENT PRIMARY KEY,
21     product_name VARCHAR(255) NOT NULL
22 );
23
24 -- Create the 'Downloads_Products' junction table
25 CREATE TABLE Downloads_Products (
  
```