

CPSC 4620 Project Phase 3

Building a MySQL Database

100 pts

Due Tuesday, June 11th at 11:00 am

For this stage of the Project you will build your database for Anton's Pizzeria in MySQL. Remember when you create a database to give a generic password as you will have to provide it to me with your submission. You may continue to work with a partner on this assignment. You only need one submission per group, but make sure it has both partners' names in the connection information file.

It is much easier to create the SQL code files and run them in MySQL than it is to type out the commands inside the MySQL terminal.

Requirements

1. Create your MySQL database using the instructions on Canvas
2. Create a SQL code file that has the create statements necessary to build the tables for your database. Remember to include any constraints that you need for the database. Run the SQL code file in MySQL to create your database. Name this file "CreateTables.sql"
3. Create a SQL code file that has the insert statements necessary to populate your database with the provided data. Note: This will get a little tedious to insert all the data in the correct tables. I tried to find a way to automate it or make it easier, but there's not a way without knowing your specific database design. Copy and Paste will be your friend. Name this file "PopulateData.sql"
4. Create a SQL code file that just contains a "SELECT * FROM ..." command for each table in your database. Name this file "ViewTables.sql"
5. Create a SQL code file that will drop each table in your database. Steps 4 and 5 will make it easier for me to grade your submission. I can log into my own empty database, run you create file and your insert file, then your ViewTables file to view your tables. After grading your submission I can run the drop file to clear the DB for the next person. This will allow me to grade your code files without having to touch your actual copy of the database. This will also be helpful for you to run if there are errors in your create file or insert file and you need to re-run everything. Name this file "DropTables.sql"
6. Also submit a text file with your connection information and password. I should not need this for this stage of the assignment, but if something goes wrong with your submission I could check your actual database you have set up.

Data:

Insert the following data into your database

Toppings:

Toppings				Units Used			
Name	Price	Cost per unit	Inventory	small	medium	large	x-large
Pepperoni	1.25	0.2	100	2	2.75	3.5	4.5
Sausage	1.25	0.15	100	2.5	3	3.5	4.25
Ham	1.5	0.15	78	2	2.5	3.25	4
Chicken	1.75	0.25	56	1.5	2	2.25	3
Green Pepper	0.5	0.02	79	1	1.5	2	2.5
Onion	0.5	0.02	85	1	1.5	2	2.75
Roma tomato	0.75	0.03	86	2	3	3.5	4.5
Mushrooms	0.75	0.1	52	1.5	2	2.5	3
Black Olives	0.6	0.1	39	0.75	1	1.5	2
Pineapple	1	0.25	15	1	1.25	1.75	2
Jalapenos	0.5	0.05	64	0.5	0.75	1.25	1.75
Banana Peppers	0.5	0.05	36	0.6	1	1.3	1.75
Regular Cheese	1.5	0.12	250	2	3.5	5	7
Four Cheese Blend	2	0.15	150	2	3.5	5	7
Feta Cheese	2	0.18	75	1.75	3	4	5.5
Goat Cheese	2	0.2	54	1.6	2.75	4	5.5
Bacon	1.5	0.25	89	1	1.5	2	3

Discounts:

Name	Percent off	Dollar off
employee	15	
Lunch Special Medium		1
Lunch Special Large		2
Specialty Pizza		1.5
Gameday special	20	

Base Prices:

Size	Crust	Price	Cost
small	Thin	3	0.5
small	Original	3	0.75
small	Pan	3.5	1
small	Gluten-Free	4	2
medium	Thin	5	1
medium	Original	5	1.5
medium	Pan	6	2.25
medium	Gluten-Free	6.25	3
Large	Thin	8	1.25
Large	Original	8	2
Large	Pan	9	3
Large	Gluten-Free	9.5	4
X-Large	Thin	10	2
X-Large	Original	10	3
X-Large	Pan	11.5	4.5
X-Large	Gluten-Free	12.5	6

Orders:

Enter the following orders into the database. You do not need to deduct from the inventory for these orders. Price and cost of each pizza is included. All orders should be marked as completed by the kitchen. Note: These will take several insert statements since the data is spread throughout multiple tables.

On March 5th at 12:03 pm there was a dine-in order for a large thin crust pizza with regular cheese (and extra cheese), pepperoni, and sausage (Price: 13.50 Cost: 3.68). They used the Lunch special Large discount They sat at Table 14, seats 1, 2, and 3.

On March 3rd at 12:05 pm there was a dine in order At table 4 seat 1 for a medium pan pizza with feta cheese, black olives, roma tomatoes, mushrooms and banana peppers (P: 10.60, C: 3.23). They get the lunch special medium discount, and the specialty pizza discount. At the same table at seat 2 there was a separate order for a small original crust pizza with regular cheese, chicken and banana peppers (P: 6.75, C: 1.40).

On March 3rd at 9:30 pm Andrew Wilkes-Krier places an order for pickup of 6 Large original crust pizzas with regular cheese and pepperoni (Price: 10.75, Cost:3.30 each). Andrew's phone number is 864-254-5861.

On March 5th at 7:11 pm there was a delivery order made by Andrew Wilkes-Krier for 1 X-large Pepperoni and sausage pizza (P 14.50, C 5.59), one X-Large Ham (extra) and Pineapple (extra) pizza (P: 17, C: 5.59), and one X-Large Jalapeno and Bacon pizza (P: 14.00, C: 5.68). All the pizzas have the four cheese blend on it, and are original crust. The order has the Gameday Special applied to it, and the Ham

and pineapple pizza has the specialty pizza discount applied to it. The pizzas were delivered to 115 Party Blvd, Anderson SC 29621. His phone number is the same as before.

On March 2nd at 5:30 pm Matt Engers placed an order for pickup for an X-Large pizza with Green Pepper, Onion, Roma Tomatoes, Mushrooms, and Black Olives on it. He wants the goat cheese on it, and a Gluten Free Crust (P: 16.85, C:7.85). The specialty pizza discount is applied to the pizza. Matt's phone number is 864-474-9953.

On March 2nd at 6:17 pm Frank Turner places on order for delivery of one large pizza with chicken, green peppers, onions, and mushrooms. He wants the four cheese blend and thin crust (P: 13.25, C: 3.20). The pizza was delivered to 6745 Wessex St Anderson SC 29621. Frank's phone number is 864-232-8944.

On March 6th at 8:32 pm Milo Auckerman ordered two large thin crust pizzas. One had the 4 cheese blend on it (extra) (P: 12, C: 3.75), the other was regular cheese and pepperoni (extra) (P:12, C: 2.55). He used the employee discount on his order. He had them delivered to 8879 Suburban Home, Anderson, SC 29621. His phone number is 864-878-5679.

Notes:

- MySQL has an autonumber datatype available. While it is helpful to use these for Primary key fields, you then would not know what the key value is and won't be able to reference in a later insert statements in a foreign key field. Do not use the autonumber datatype.

Groups:

You may work as an individual, or work with one partner for this project. I encourage you to work with a partner. Please note that once you have selected a partner, you are only allowed to work with that partner for the rest of the semester long project. If you work with someone and decide you do not want to work with them on a later stage, you will have to work alone. So pick your partner carefully. If you work with a partner, actually work with them. Divide and conquer will not work well for this assignment. Actually discuss and work on the code together.

You may only work with one partner. Any larger groups would be violating the academic integrity rules for this class. Any groups that work together would also violate the academic integrity rules. For this assignment, there is not much that can be discussed without violating academic integrity, so it is best to not discuss it with anyone outside of your group. If working with a partner, make sure you only submit one copy that has both partner's names on it.

If you did not work with a partner on project one and two, consider partnering up now. You could choose to combine diagrams, or pick one diagram to make corrections to and continue on using for the remainder of the project.

Submission

You will submit your assignment on Handin. You will upload 5 files: your SQL code file that creates the tables in your database, the SQL code file that populates your database, the sql code file that runs "Select *" on each table, a SQL code file that drops all your tables, and a text file with your connection

string and password for the database. The connection string and password will give me access to your database so I can make sure that tables are set up correctly and that the data is there. Please use the file names from the prompt to speed up grading as much as possible. If you are working with a partner, include their name in the file with the connection information.