Assignment 5

Due Apr 10 by 11:59pm **Points** 100 **Submitting** a file upload **File Types** txt and pdf
Available Apr 3 at 12am - Apr 12 at 11:59pm 10 days

This assignment was locked Apr 12 at 11:59pm.

CSC134 - Spring 2019 - Applebaum

Assignment 5

Total: 100 points

Part 1 – Create the database:

Using SQL, create tables according to the schema below. The ER diagram is attached -- be sure that your tables reflect requirements from the ER diagram that may not be listed below. You must use the **exact** table and column names given to receive full credit. Comments must be properly formatted.

You may use your Assignment 4 submission directly, or modify it to improve your grade. You must create all tables correctly to receive any credit on part 2.

CUSTOMER(cust_id, first, last, street, city, state, zip)

REWARDS(r_id, points, cust_id) foreign key (cust_id) references to CUSTOMER(cust_id)

CUSTOMER_PHONE(cust_id, phone) foreign key (cust_id) references to CUSTOMER(cust_id)

CONTRACTOR(bus_name, discount)

CONTRACTOR_PHONE(bus_name, phone) foreign key (bus_name) references to CONTRACTOR(bus_name)

HIRE(cust_id, bus_name, hours) foreign key (cust_id) references to CUSTOMER(cust_id), foreign key (bus_name) references to CONTRACTOR(bus_name)

ROOM(name, cust_id) foreign key (cust_id) references to CUSTOMER(cust_id)

PAINT_COLOR(mfg_id, color_id, name)

PAINTED(rm_name, cust_id, mfg_id, color_id) foreign key (rm_name) references to ROOM (name), foreign key (cust_id) references to ROOM (cust_id), foreign key (mfg_id) references to PAINT_COLOR (mfg_id), foreign key (color_id) references to PAINT_COLOR (color_id)

Part 2 – Populate the database:

Using SQL, populate the database with enough data to return at least one row for each of the following queries. Your insert statements must be included with your submission to receive any credit on this part. Be sure your insert statements do not violate any integrity constraints – do not turn off constraint checks during insert. Comments must be properly formatted.

Then, use SQL to specify the following queries. Queries must return exactly the data requested – no more and no less.

1. Find the business name of all contractors who have worked 10 or more hours for a customer in the 95819 area code.
2. Find the manufacturer id, color id, and names of all paint colors that have not been used in a room.
3. Find the customer ID and first and last names of all customers who have used a paint color named "Blushing Pink" in a room named "Bedroom 1"
4. Find the customer ID and first and last names of all customers who have used a paint color named "Blushing Pink" but have used that color is some room other than "Bedroom 1". Make sure when you populate your database that this query returns at least some different results than query 3.
5. For each contractor, find the business name, discount, and total hours they have worked. Sort the output from most hours to least.
6. Find the customers with two or more rooms painted. For each customer, list their first and last name and the number of rooms painted, and have the output call this column 'Room Count'. Be sure to populate the database so that there are at least two different customers returned by this query.

Part 3:

Specify statements to drop all of the tables created in part 1. Pay attention to the order of the statements to drop everything successfully – do not use CASCADE. If you are happy with your submission from assignment 4 you may use those drop statements, otherwise you may improve your submission. Comments must be properly formatted.

Part 4:

Run each of your queries from part 2 (before you drop your tables) and create the output file as shown in the submission section.

Submission:

Submit the following files to Canvas using the **exact** file names given and corresponding file types. Do not zip them.

1. Create table statements (1_create_table.txt)
2. Insert and query statements (2_populate_db.txt)
3. Drop tables statements (3_drop.txt)
4. An output file showing the query results of part 2. (4_output.pdf)
   In this file, for each query you must:
   1. Include the query number and description (e.g. Query 1: Retrieve the…)
   2. Your SQL query (e.g. SELECT ssn FROM mytable…)
   3. The result of running the query (legible screen shots)

Grading:

Part 1: 10 points
Part 2: 60 points
Part 3: 10 points
Part 4: 20 points

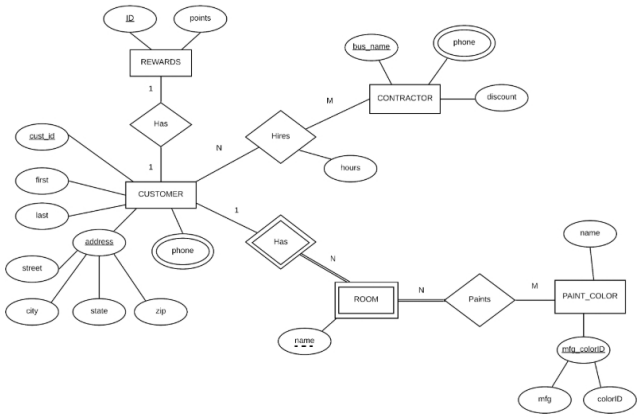
Submission

Submitted!
Apr 10 at 11:37pm
Submission Details
Download 1_create_table-2.txt
Download 2_populate_db-2.txt
Download 3_drop-2.txt
Download 4_output-1.pdf

Grade: 85 (100 pts possible)
Graded Anonymously: yes

Comments:
File 1 • Comments (name at top) not properly formatted (Also file 2). -3 QUERY 6 • Not included -10 General comments • By including the create database and use statements you are breaking my grading script. • By not including your queries in file 2 and only including them as pictures in file 4, you are forcing me to retype all of them to grade them.
Kathleen Applebaum, Apr 14 at 7:47pm

Submissions without a correct part 1 will receive no credit.



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