University of British Columbia, Department of Computer Science

CPSC 304

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Date: ___Apr 2nd, 2022_____

Project Group Number on Canvas: _66____

Group Members:

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia.

Description of the final project:

The final project that we are modeling is the quarantine hotel management system. That is, we focus on the management system that can tracking people who are in hotel quarantine.

In this system, we are using the CPSC department's Oracle database system, using PHP as user interface to display the queries provided by the system.

The system is mainly uses for the quarantine department staff who can access/manage the quarantined peoples' data and search/update for related information. This system provides the following functions:

- 1. Adding/deleting quarantine people into/from the system
- 2. Counting the number of quarantine people
- 3. Showing the quarantine people information by different attribute
- 4. Displaying the volunteers' information and assigned people
- 5. Updating/Searching the Meal information
- 6. Searching the people who order meals

Due to SQLPLUS does not support the "update on cascade", we remove this from our code. Other than that, the rest of the schemas are the same.

List of all SQL queries used:

1. Insert: Add new quarantine people into the database (table) by providing their information

INSERT INTO QQ

VALUES (:bind1, :bind2, :bind3, :bind4, :bind5, :bind6, :bind7, :bind8)

2. Delete: Delete quarantine people from the database (table) by providing the ID DELETE FROM QQ

WHERE ID =" . \$id_to_delete . "'

3. Update: Update the price of meal

UPDATE MOP SET Price="" . \$new_price . "'
WHERE Price="" . \$old_price . "'

4. Selection: Find the volunteer information by select the minimum and maximum age

SELECT *

FROM VAW

WHERE Age >" . \$minAge . "' AND Age <" . \$maxAge . "'

5. Projection: Show the selected information for quarantine people

SELECT ID FROM QQ

6. Join: Find volunteer and the assigned quarantine people by the vaccination status

SELECT qp.ID, qp.QName, qp.Phone, qp.VaccinationStatus, qp.Check_inTime, qp.Check_outTime, qp.HAddress, qp.HName, a.VolunteerID FROM QQ qp, Assist a

WHERE qp.ID = a.ID AND qp.VaccinationStatus = 1

7. Aggregation: Count the total number of quarantine people

SELECT Count(*) FROM QQ

8. Nested Aggregation with Group By: Find the mealtime that the average price of meal is the minimum over all mealtimes

SELECT M.Mealtime, AVG(M.Price)

FROM MOP M

GROUP BY M.Mealtime Having AVG(M.Price) <= ALL

(SELECT AVG(M2.Price)

FROM MOP M2

GROUP BY M2.Mealtime)

9. Division: Find people who order in all mealtime

SELECT Q.Qname

FROM QQ Q

WHERE NOT EXISTS (SELECT DISTINCT M.Mealtime

FROM MOP M

WHERE NOT EXISTS (SELECT M2.Mealtime

FROM MOP M2

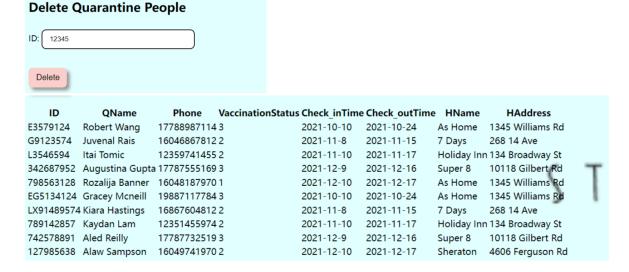
WHERE M2.Mealtime = M.Mealtime AND M2.ID = Q.ID))

Screenshots of the sample output:

1. Insert: Add new quarantine people into the database (table) by providing their information



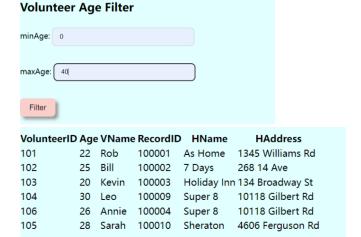
2. Delete: Delete quarantine people from the database (table) by providing the ID



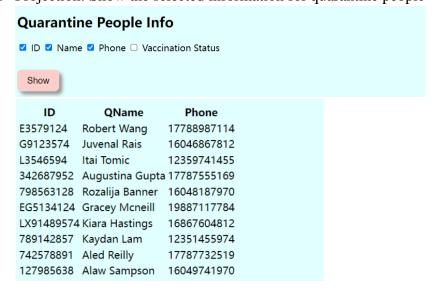
3. Update: Update the price of meal

Update Meal Price							
The values are case sensitive and if you enter in the wrong case, the update statement will not do anything.							
MealID: 1001							
New Price: 80							
Update							
Update successful!<							
MealID Price Mealtime ID RName RAddress							
1001 80 0 E3579124 SuperDilicious 135 Williams Rd							

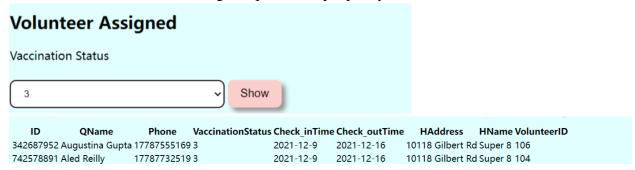
4. Selection: Find the volunteer information by select the minimum and maximum age



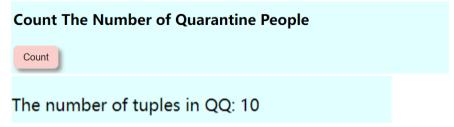
5. Projection: Show the selected information for quarantine people



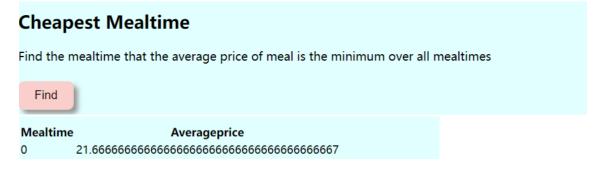
6. Join: Find volunteer and the assigned quarantine people by the vaccination status



7. Aggregation: Count the total number of quarantine people



8. Nested Aggregation with Group By: Find the mealtime that the average price of meal is the minimum over all mealtimes



9. Division: Find people who order in all mealtime

