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Relational database

Assignment 4

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Description: Assignment 4

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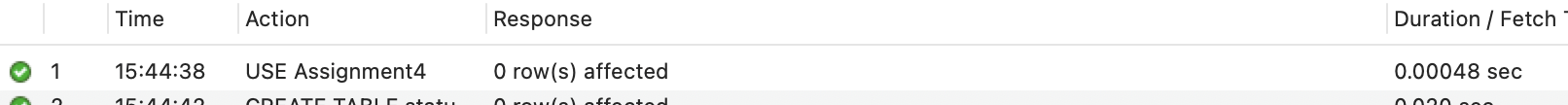
#PART1

CREATE DATABASE Assignment4;

#Creating a database, naming it 'Assignment 4'

USE Assignment4;

# Command issued to use database assignment 4



#Question1

#Selecting the 3 columns we's like to return

SELECT

first\_name,

last\_name,

email

FROM

my\_contacts

WHERE

profession = (SELECT AVG(profession)

FROM my\_contacts

WHERE profession = 10); #Selecting the profession number 10 using a subquery

Table

Description automatically generated

#QUESTION2

#Selecting the 3 columns we's like to return

SELECT

first\_name,

last\_name,

profession

FROM

my\_contacts

WHERE

email = (SELECT email

FROM my\_contacts

WHERE email = 'tinfoilhat@conspiracy.ca' #Selecting the email using a subquery

LIMIT 1); #Limiting to first occurence

Table

Description automatically generated

#QUESTION3

#Selecting the 3 columns we's like to return

SELECT

first\_name,

last\_name,

profession

FROM

my\_contacts

INNER JOIN postal\_codes ON my\_contacts.postal\_code = postal\_codes.postal\_code #Using Join statement to merge rows from 2 tables

WHERE postal\_codes.city = (SELECT city

FROM postal\_codes

WHERE city = 'Churchill, ON' #Selecting the city using a subquery

LIMIT 1); #Limiting to first occurence

Table

Description automatically generated

#PART2

#QUESTION1

#Creating a table with id and status, id is primary key

CREATE TABLE status (

id INT NOT NULL AUTO\_INCREMENT,

status VARCHAR(30) DEFAULT NULL,

PRIMARY KEY(id)

);



#Testing out

SELECT DISTINCT

status

FROM

my\_contacts;

#Married, divorced, single, committed relationship

#Inserting the selected distinct status values into the new status table previously created

INSERT INTO status(status) (SELECT DISTINCT

status

FROM

my\_contacts);



#QUESTION2

#ALREADY DONE IN Q1

#QUESTION3

#Updating contents of database to reflect the ID number from the status table using CASE

UPDATE my\_contacts

SET my\_contacts.status = CASE

WHEN my\_contacts.status = 'married' THEN 1

WHEN my\_contacts.status = 'divorced' THEN 2

WHEN my\_contacts.status = 'single' THEN 3

ELSE 4

END;



#QUESTION4

/\*I chose to use the 'MODIFY' as it can do everything the 'CHANGE' statement can do except renaming, which I don't

need to use in this case\*/



ALTER TABLE my\_contacts MODIFY status INT DEFAULT NULL;