Assignment #1

Due Date: 2/12/2022 MIDNIGHT (11.59PM)

Purpose: The purpose of this assignment is to help you:
- Become familiar with the data source: Bike store database
- Understand SQL query

Instructions: Be sure to read the following general instructions carefully:

This assignment should be completed individually by all the students. Submit your solution **through the dropbox,** Your submission should include sql command and the screenshot of command execution result, the submission must be named according to the following rule:

studentID(yourlastname)_Assignment#number.doc e.g., 300123456(**smith)_Assignemt#1**.doc.

Write both the output table and the query in the solution (NO POINTs WILL BE ALLOCATED IF QUERY OR TABLE ARE MISSING)

Questions [10 marks]

Part -A (5 Points)

ins_id	lastname	firstname	city	country
1	Anna	Rav	Toronto	CA
2	Chong	Raul	Toronto	CA
3	Vasudevan	Hima	Chicago	USA

1) Create the INSTRUCTOR table as defined above. Have the ins_id be the primary key, and ensure the lastname and firstname are not null [1 mark]

2) Insert one row into the INSTRUCTOR table for the instructor Rav Anna [1 mark]

3) Insert the second and third rows in one Insert command in the INSTRUCTORS table [1 mark]

4) Assume that instructor Rav Anna has moved to this city of Markham, update the data about him in the table correspondingly [1 mark]

5) Delete the row for instructor Raul Chong from the table [1 mark]

Part-B (5 Points)

1) Setup the Bike Store database in your SQL developer (1 points)

2) Display a list of all sales orders with staff id is 9 (1 Point)

3) Name all the customers who live in New York and provided a phone number. (1 point)

4) Display the names of the customers who ordered from Baldwin Bikes and Santa Cruz Bikes stores. (1 point)

5) Display the name of the items_id and Item name whose discount is more than 0.05 (1 point)

HINTS

The following details was used to create an initial database design (E-R model) for the Bike store database that indicates entities, attributes (columns), primary keys, and relationships.

Table sales_stores

The sales_stores table includes the store's information. Each store has a store name, contact information such as phone and email, and an address including street, city, state, and zip code.

Table sales_staffs

The sales_staffs table stores the essential information of staffs including first name, last name. It also contains the communication information such as email and phone. A staff works at a store specified by the value in the store_id column. A store can have one or more staffs.

A staff reports to a store manager specified by the value in the manager_id column. If the value in the manager_id is null, then the staff is the top manager. If a staff no longer works for any stores, the value in the active column is set to zero.

Table production_categories:

The production_categories table stores the bike's categories such as children bicycles, comfort bicycles, and electric bikes.

Table production_brands

The production_brands table stores the brand's information of bikes, for example, Electra, Haro, and Heller.

Table production_products

The production_products table stores the product's information such as name, brand, category, model year, and list price. Each product belongs to a brand specified by the brand_id column. Hence, a brand may have zero or many products. Each product also belongs a category specified by the category_id column. Also, each category may have zero or many products.

Table sales_customers

The sales_customers table stores customer's information including first name, last name, phone, email, street, city, state and zip code.

Table sales_orders

The sales_orders table stores the sales order's header information including customer, order status, order date, required date, shipped date.It also stores the information on where the sales transaction was created (store) and who created it (staff).Each sales order has a row in the sales_orders table. A sales order has one or many line items stored in the sales.order_items table.

Table sales_order_items

The sales_order_items table stores the line items of a sales order. Each line item belongs to a sales order specified by the order_id column.

A sales order line item includes product, order quantity, list price, and discount.

Table production_stocks

The production_stocks table stores the inventory information i.e. the quantity of a particular product in a specific store.