

Concordia University
Department of Computer Science & Software Engineering
COMP 353 – Databases
Summer 2018
Assignment # 1

Due: July 18, 2018

For the Contract Management System (CMS), some business users want to analyze the information from the initial database design used in the warm up project. You should implement the SQL queries and provide your results.

Q-1) List the employee ID's and name of all the developers.

Q-2) Insert a new Contract information (Type: Diamond) of a client (Nike) in the Database who already have another contract signed (Type: Gold) and already present in your database. You must show the existence of this company (Nike) before execution of the query and after the query is executed for the new contract. Your query results must associate the new contract of a different type but with the same company i.e., Nike.

Q-3) A sales executive entered the wrong ACV value of the new contract signed by Nike and approaches you to enter updated information, but you find that two contracts present in the name of Nike. How will you change the ACV value, what will be the identifier used? Show with the help of an SQL query.

Q-4) Insert an employee "Prospero" who recently joined the company. Write an SQL query which adds him to the list of his manager "David".

Q-5) Print the list of all the customers who signed contract(s) of type "Gold" between Jan 1st and Dec 31st of 2017.

Q-6) Write an SQL query which gives the growth of number of customers in 2017 as compared to 2016, considering all types of contracts and services.

What you should hand in:

You should submit a report that include:

- a) reasonable assumption(s) you made;
- b) script to create and populate the tables (SQL);
- c) submit tuples/records in each table, SQL queries for each question and the output of the queries.