CS 207: Applied Database Practicum In-Class Activity 6: Introduction to Stored Functions, Cursors and Triggers, 17th September, 2018

In this activity, you will be working in Mysql.

Q1. In this question load the database from the dump file (join.sql) given in moodle

The Database has the following tables:

Customers: stores customer's data.

Products: stores a list of scale model cars.

ProductLines: stores a list of product line categories.

Orders: stores sales orders placed by customers.

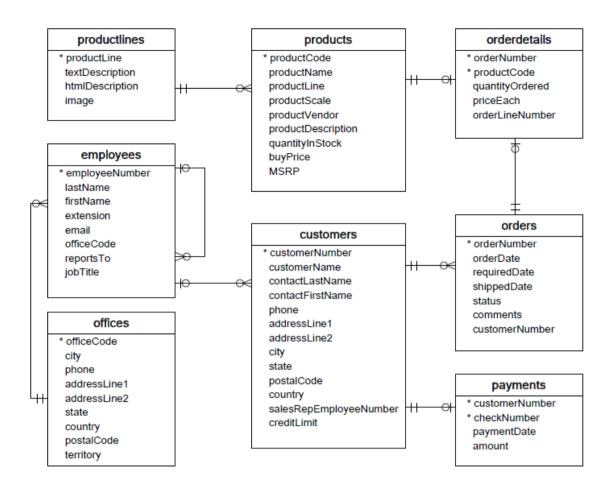
OrderDetails: stores sales order line items for each sales order.

Payments: stores payments made by customers based on their accounts.

 $\textbf{Employees}: stores\, all\,\,employee\,\,information\,\,as\,\,well\,\,as\,\,the\,\,organization\,structure\,such\,\,as\,\,who$

reports to whom.

Offices: stores sales office data.



- Q1. Create a stored function that takes as input the creditlimit of a customer from the **customers** table and assigns the following CustomerLevel to each customer:
- i) if creditLimit > 50000 then assign CustomerLevel=**PLATINUM**
- ii)if creditLimit <=50000 and creditLimit >=10000 then assign CustomerLevel=GOLD
- iii) if creditLimit <=50000 then assign CustomerLevel=SILVER

The output should be something similar to the image below

customerName	CustomerLevel(creditLimit)
Alpha Cognac American Souvenirs Inc Amica Models & Co. ANG Resellers Anna's Decorations, Ltd Anton Designs, Ltd. Asian Shopping Network, Co Asian Treasures, Inc. Atelier graphique Australian Collectables, Ltd Australian Collectors, Co.	PLATINUM SILVER PLATINUM SILVER PLATINUM SILVER PLATINUM SILVER SILVER SILVER GOLD PLATINUM PLA

Q2. Create a table temp with the following schema:

Field	 •	 Default	
customerNumber	NO NO		

Create a stored procedure containing a cursor that

- i) Fetches the customerNumber and creditLimit from customers table
- ii) Fetches the customerNumber and Total amount paid by each customer from payments table
- iii) If the Total amount > creditLimit then insert into the **temp** the customerNumber and "**limit exceeded**"
- iv) If the Total amount < creditLimit then insert into the **temp** the customerNumber and "**below limit**".

The output should be something similar to the image below

BONUS: ONLY if you have done the above steps, then you can try this bonus for an extra point.

Q3. Create a table **payments_copy** having exactly the same schema as the table **payments** (The schema is given below)

Field	Туре	Null		Default	
	int(11) varchar(50) date decimal(10,2)	NO NO NO NO	PRI PRI 	NULL NULL NULL NULL	

Copy the contents of the table payments into the table payments_copy.