

CPSC 5021 Database Systems

Fall 2017

Homework 6

Due: 11:59 pm, Saturday, Nov 25

Total points: 30

Download the MySQL script “mysqlsampledatabase.sql” from Canvas and load the script into your database.

This sample database consists of 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
- **Employees:** stores all employee information as well as the organization structure such as who reports to whom
- **Offices:** stores sales office data

Use the database to solve problem 1 and problem 2. Note: problem 3 does NOT use this database.

1. (10 points)

Create a stored procedure “setRelocationFee” to set the relocation fee for a given employee. If the employee’s office is in San Francisco, the relocation fee is \$10000; if the employee’s office is in Boston, the relocation fee is \$8000; if the employee’s office is in London, the relocation fee is \$20000; if the employee works in other offices, the relocation fee is \$15000.

Below is a sample statement to test your stored procedure.

```
set @employeeID = 1501;  
call setRelocationFee(@employeeID, @relocationfee);  
select @employeeID, @relocationfee;
```

2. (10 points)

Create a stored procedure “changeCreditLimit” to change the credit limit for a given customer. If the customer’s total payment amount (note: payment amount is in the table “payments”) is not smaller than a given amount, then add 2000 to the customer’s credit limit (note: credit limit is in the table “customers”).

Below is a sample statement to test your stored procedure.

```
set @customer = 114;  
set @totalpayment = 15000;  
call changeCreditLimit(@customer,@totalpayment);
```

The current credit limit of customer “114” is 117300. After the procedure “changeCreditLimit” is invoked, the customer’s credit limit should become 119300.

3. (10 points)

Create a table using the statement below.

```
create table odd (number int primary key);
```

Then create a stored procedure “insertOdd” to insert odd numbers in the range of [1, 20] into the table “odd”. Number 5 and 15 are skipped.

Below is a statement to test your stored procedure.

```
call insertOdd();
```

Submission

Use Canvas to submit your SQL statements (**.sql file**). Make sure you test your SQL statements on the database server “cssql.seattleu.edu” before submission.