Exercises: Stored Procedures

You can check your solutions here: https://judge.softuni.org/Contests/3141/Stored-Procedures.

Queries for SoftUni Database

1. Employees with Salary Above 35000

Create stored procedure **usp_GetEmployeesSalaryAbove35000** that returns **all employees' first and last names** for whose **salary is above 35000**.

Example

First Name	Last Name
Roberto	Tamburello
David	Bradley
Terri	Duffy
…	…

2. Employees with Salary Above Number

Create stored procedure **usp_GetEmployeesSalaryAboveNumber** that **accept a number** (of type **DECIMAL(18,4)**) as parameter and returns **all employees' first and last names** whose salary is **above or equal** to the given number.

Example

Supplied number for that example is 48100.

First Name	Last Name
Terri	Duffy
Jean	Trenary
Ken	Sanchez
…	…

3. Town Names Starting With

Write a stored procedure **usp_GetTownsStartingWith** that **accept string as parameter** and returns **all town names starting with that string.**

Example

Here is the list of all towns **starting with "b".**

Town
Bellevue
Bothell
Bordeaux
Berlin

Follow us:

4. Employees from Town

Write a stored procedure **usp_GetEmployeesFromTown** that accepts **town name** as parameter and return the **employees' first and last name that live in the given town.**

Example

Here it is a list of employees **living in Sofia.**

First Name	Last Name
Svetlin	Nakov
Martin	Kulov
George	Denchev

5. Employees by Salary Level

Write a stored procedure **usp_EmployeesBySalaryLevel** that receive as **parameter level of salary** (low, average or high) and print the **names of all employees** that have given level of salary. You should use the function - "**dbo.ufn_GetSalaryLevel(@Salary)** ", which was part of the previous task, inside your "**CREATE PROCEDURE …**" query.

Example

Here is the list of all employees with high salary.

First Name	Last Name
Terri	Duffy
Jean	Trenary
Ken	Sanchez
…	…

6. * Delete Employees and Departments

Write a **procedure** with the name **usp_DeleteEmployeesFromDepartment (@departmentId INT) which deletes all Employees** from a **given department**. **Delete these departments** from the **Departments table** too. **Finally SELECT** the **number** of **employees** from the **given department**. If the delete statements are correct the select query should return 0.

After completing that exercise restore your database to revert all changes.

Hint:

You may set **ManagerID** column in Departments table to **nullable** (using query "ALTER TABLE …").

Queries for Bank Database

7. Find Full Name

You are given a database schema with tables **AccountHolders(Id (PK), FirstName, LastName, SSN)** and **Accounts(Id (PK), AccountHolderId (FK), Balance)**. Write a stored procedure **usp_GetHoldersFullName** that selects the full names of all people.

Example

Full Name
Susan Cane
Kim Novac
Jimmy Henderson
…

8. People with Balance Higher Than

Your task is to create a stored procedure **usp_GetHoldersWithBalanceHigherThan** that accepts a **number as a parameter** and returns all **people who have more money in total of all their accounts than the supplied number**. Order them by first name, then by last name

Example

First Name	Last Name
Monika	Miteva
Petar	Kirilov
…	…

9. Calculating Interest

Your task is to create a stored procedure **usp_CalculateFutureValueForAccount** that uses the function from the previous problem to give an interest to a person's account **for 5 years**, along with information about his/her **account id, first name, last name and current balance** as it is shown in the example below. It should take the **AccountId** and the **interest rate** as parameters. Again you are provided with "**dbo.ufn_CalculateFutureValue**" function which was part of the previous task.

Example

Account Id	First Name	Last Name	Current Balance	Balance in 5 years
1	Susan	Cane	123.12	198.2860

*Note: for the example above interest rate is 0.1