Practice 9. SQL Statements

Use the **ScottDB** database to create the solution.

1. List employees and their location of each job whose salary is more than the average salary of their own job.
2. Copy the content of the emp table into a TempEmp table. Write an SQL instruction that increases the salary of Blake's subordinates in the TempEmp table by 15% of their average salaries. Make sure that the data modification is successful. Use a View to solve the problem, which will be deleted after the solution.
3. Make an instruction that creates a TempEmp table from the emp table. Increase by 10% the salary of those workers who works for the lowest average salary department. List the name of this department, the names of the employees who works for it, and their old and new salary. Use a view for the solution.
4. Create the TempEmp table from the emp table. Make an instruction that deletes the best-paid Dallas employee from the TempEmp table. Check out the success of the deletion by listing. Use View-s to the solution.

Use NORTHWIND Database to solve the next problems!

5. Create a new **DemoCategories** table in the Northwind Database. The fileds will be the next: CategoryID (integer numbered automatically, it is the primary key), CatName (max 20 characters), Description (max. 50 characters).

   Insert some new rows to the DemoCategories table.

   Modify the table, define an index for the CatName field.

6. Create a **DemoSuppliers** table in the Northwind database. Columns: SupplierID (integer, auto-numbered, primary key), SupplierName (character, max 20 characters), phone (max 18 characters). For the phone number, specify a constraint for the next format (pattern): (xx) (xx) xxxx-xxx. Where x can only be between 0 and 9 digits. Insert at least two records to the table.
7. a.) Create a **DemoProducts** table in the Northwind database. Columns: ProductID (integer), ProductName (max 15 characters), UnitPrice (real), UnitsInStock (real), Category (integer) columns. The primary key is ProductID. Index the table by the name of the product.

   b.) Modify the table, add a foreignkey constraint to create relationship to the DemoCategory table. Give a constraint to check that the UnitsInStock and the UnitPrice cannot be negative. Enter Default constraint 0 for the UnitsInStock.

   c.) Fill in the table with data using the INSERT statement.

8. Write a *SELECT INTO* statement that creates a table, **DemoEmployees**, inserting every row from the Employees table. Add a new *Salary* (integer) column to the table.

Add a constraint that does not allow a Sales Representative (Title Column) employee to get less than US $ 1100 salary or more than US $ 2,000. Insert new data, check that this constraint works!

9. Create a copy of the Northwind database Products table under **DemoProducts2**. Create an index on the UnitPrice column of the table! Add a primary key (ProductID) to the table.

10. Delete the **DemoCategories, DemoSuppliers, DemoProducts, DemoEmployees, DemoProducts2** tables from the Northwind database.