02. DB-Basics-Basic-CRUD-Exercises

/\* 01ExamineTheDatabases \*/

CREATE DATABASE Diablo

CREATE DATABASE Geography

CREATE DATABASE SoftUni

/\* 02FindAllInformationAboutDepartments \*/

SELECT \* FROM Departments

/\* 03FindAllDepartmentNames \*/

SELECT Name FROM Departments

/\* 04FindSalaryOfEachEmployee \*/

SELECT FirstName, LastName, Salary FROM Employees

/\* 05FindFullNameOfEachEmployee \*/

ELECT FirstName, MiddleName, LastName FROM Employees

/\* 06FindEmailAddresOfEachEmployee \*/

SELECT FirstName + '.' + LastName + '@softuni.bg'

AS [Full Email Address]

FROM Employees

/\* 07FindAllDifferentEmployeeSalaries \*/

SELECT DISTINCT Salary FROM Employees

/\* 08FindAllInformationAboutEmployees \*/

SELECT \* FROM Employees

WHERE JobTitle = 'Sales Representative'

/\* 09FindNamesOfAllEmployeesBySalaryInRange \*/

SELECT FirstName, LastName, JobTitle

FROM Employees

WHERE Salary BETWEEN 20000 AND 30000

/\* 10FindNamesOfAllEmpoyees \*/

SELECT FirstName + ' ' + MiddleName + ' ' + LastName

AS [Full Name]

FROM Employees

WHERE Salary IN (25000, 14000, 12500, 23600)

/\* 11FindAllEmployeesWithoutManager \*/

SELECT FirstName, LastName

FROM Employees

WHERE ManagerID IS NULL

/\* 12FindAllEmployeesWithSalaryMoreThan50000 \*/

SELECT FirstName, LastName, Salary

FROM Employees

WHERE Salary > 50000

ORDER BY Salary DESC

/\* 13Find5BestPaidEmployees \*/

SELECT TOP(5) FirstName, LastName

FROM Employees

ORDER BY Salary DESC

/\* 14FindAllEmployeesExceptMarketing \*/

SELECT FirstName, LastName

FROM Employees

--WHERE DepartmentId <> 4

WHERE DepartmentId != 4

--In Judge must be paste only one query

SELECT FirstName, LastName

FROM Employees

WHERE DepartmentId IN

(SELECT DepartmentID FROM Departments WHERE [Name] <> 'Marketing' )

/\* 15SortEmployeesTable \*/

SELECT \* FROM Employees

ORDER BY Salary DESC, FirstName ASC, LastName DESC, MiddleName ASC

/\* 16CreateViewEmployeesWithSalaries \*/

CREATE VIEW V\_EmployeesSalaries AS

SELECT FirstName, LastName, Salary

FROM Employees

--It must be paste in Judge without the text down

GO

SELECT \* FROM V\_EmployeesSalaries

/\* 17CreateViewEmployeesWithJobTitles \*/

CREATE VIEW V\_EmployeeNameJobTitle AS

SELECT FirstName + ' ' + ISNULL(MiddleName, '') + ' ' + LastName AS [Full Name],

JobTitle

FROM Employees

--It must be paste in Judge without the text down

GO

SELECT \* FROM V\_EmployeeNameJobTitle

/\* 18DistinctJobTitles \*/

SELECT DISTINCT JobTitle FROM Employees

/\* 19FindFirst10StartedProjects \*/

SELECT TOP(10) \* FROM Projects

ORDER BY StartDate, [Name]

/\* 20Last7HiredEmployees \*/

SELECT TOP(7) FirstName, LastName, HireDate

FROM Employees

ORDER BY HireDate DESC

/\* 21IncreaseSalaries \*/

UPDATE Employees

SET Salary \*= 1.12

WHERE DepartmentId IN (1, 2, 4, 11)

SELECT Salary FROM Employees

/\* 22AllMountainPeaks \*/

SELECT PeakName

FROM Peaks

ORDER BY PeakName

/\* 23BiggestCountriesByPopulation \*/

SELECT TOP(30) CountryName, [Population]

FROM Countries

WHERE ContinentCode = 'EU'

ORDER BY [Population] DESC, CountryName

--In Judge must be paste only one query

SELECT TOP(30) CountryName, [Population]

FROM Countries

WHERE ContinentCode IN

(SELECT ContinentCode FROM Continents WHERE ContinentName = 'Europe')

ORDER BY [Population] DESC, CountryName

/\* 24CountriesAndCurrency \*/

SELECT CountryName, CountryCode,

CASE

WHEN CurrencyCode = 'EUR' THEN 'Euro'

ELSE 'Not Euro'

END AS Currency

FROM Countries

ORDER BY CountryName

/\* 25AllDiabloCharacters \*/

SELECT [Name]

FROM Characters

ORDER BY [Name]