Practice Class 4

Objectives

Creation of Relational databases in DBMS "Microsoft SQL Server"
SQL DDL - data definition, data type, and health constraints

Note: You must follow the response template provided and only legible diagram submissions in PDF or image format (PNG, BMP, JPG and SVG) are accepted. As defined in the template, you must submit a .sql file for each problem: Rent-a-car ex_4_1_1.sql; Flight ex_4_1_2.sql, ..., ATL ex_4_1_6.sql.

Assignment 4.1

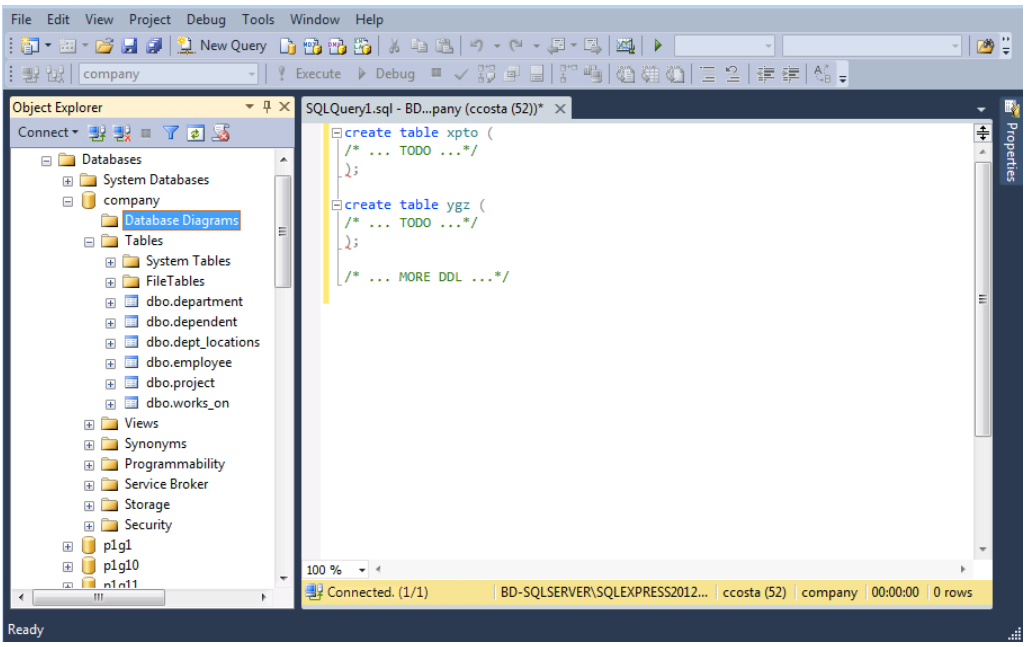
For each relational scheme developed in assignment 3, namely:

1. Rent-a-Car Management System;
2. Flight Reservation Management System;
3. Stock Management System - Order Module;
4. Electronic Medicines Prescription System;
5. Conference Management System;
6. ATL Management System.

a) Define the relationships (tables), data types, and various integrity constraints (domain, entity, and references) using the SQL DDL language. Also, note the mandatory participation of entities in the relationship (partial/total).

b) Use Microsoft SQL Server Management Studio (figure below) to connect to the SQL Server server (see assignment 1). Create a *query window* ("New Query") to interact with the DBMS. For each database, save the contents of this window (i.e. SQL DDL instructions) in a working file with the extension ".sql". To test a block of instructions must select the desired instructions and press the option "! Execute." If there are errors, these will appear in the "Messages" window. In the "Object Explorer" window you can go visual tracking of the developed actions (i.e. the instructions executed). At the end create a "Database Diagram" for each database.

c) You must submit, in Moodle, a ZIP file containing the .sql files created and a pdf (or image) with the database diagram.


File Edit View Project Debug Tools Window Help
New Query
company
Execute
Debug
Object Explorer
Connect
Databases
System Databases
company
Database Diagrams
Tables
System Tables
FileTables
dbo.department
dbo.dependent
dbo.dept_locations
dbo.employee
dbo.project
dbo.works_on
Views
Synonyms
Programmability
Service Broker
Storage
Security
p1g1
p1g10
SQLQuery1.sql - BD...pany (ccosta (52))*
create table xpto (
/* ... TODO ...*/
);
create table ygz (
/* ... TODO ...*/
);
/* ... MORE DDL ...*/
100 %
Connected. (1/1)
BD-SQLSERVER\SQLEXPRESS2012...
ccosta (52)
company
00:00:00
0 rows
Properties
Ready