

Project Assignment - Part 2

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Introduction

In **Part 2** of the project you are required to solve some problems on the database you created in Part 1. Solve the exercises using SQL Server Integration Services (SSIS) with computation on the client side (i.e., do not use any SQL command in the nodes, only standard SSIS nodes). Each group has to solve only three assignments. Look at the section with your groupid to find what assignments you need to do. Deliver your project with all the required packages in a single .zip folder, named LDS_GroupID_part2.zip.

Groups from 0 to 10

Assignment 0

For every year, the participant ordered by the total number of custodies.

Assignment 1

For each state, compute the *stolen gravity index* defined as the ratio between the total gravity of custodies involving stolen guna divided by the overall gravity of custodies.

Assignment 2

For each month, compute the total gravity in percentage with respect to the annual total.

Groups from 11 to 40

Assignment 0

For every type of gun, determine the number of custodies of young participants (under the age of 18).

Assignment 1

A city is classified as *dangerous* if the total gravity of custodies within that city is higher than the average gravity for that city's state. List all the dangerous cities.

Assignment 2

For each state, determine the gun type with the highest total gravity.

Groups from 42 to 888

Assignment 0

For every year, compute the number of total custodies.

Assignment 1

A state is considered to have a *youth criminal problem* if the age group with the highest overall gravity consists of individuals under 18. List every state with a youth criminal problem.

Assignment 2

For each incident, compute the ratio between the total gravity of crimes with a stolen gun and the total gravity of crimes with a not-stolen gun.