# DoNeMP – Module 1 – Home Task 2

Contents

[DoNeMP – Module 1 – Home Task 2 1](#_Toc449706287)

[Task 1 1](#_Toc449706288)

[Task 2 1](#_Toc449706289)

[Task 3 1](#_Toc449706290)

[Task 4 1](#_Toc449706291)

## Task 1

* Create new MS VS solution and create SQL Server Database project.
* Import your MS SQL Server database into the project. Keep all object types in own folders (Tables, Views, etc.).
* Create two publish profiles to deploy project on your local server and into the shared EPAM server.
* Make sure you deploy your database as Data-Tier Application. Set the version 1.0.0.

## Task 2

* Using VS Visual studio SQL Server Database project modify the **Shipment** table:
  + Add column ActualDistance (be populated in kilometers)
  + Add column Status, which has one of the following values:
    - Scheduled (default value)
    - Departured
    - Arrived
    - Cancelled
  + Use MERGE for fulfilling Status lookup table values
* Deploy all your changes to the database schema to your database server using Publish feature. Increase your DAC version to 1.1.0.

## Task 3

* Make change to the Status table. Add new value “Completed”.
* Increase the DAC application version and publish it.
* Also if you find any issues in your model based in the feedbacks from mentor or from new tasks, please use Publish and make changes using the database project.

## Task 4

* Create new view called vShipments.
* Include following columns:
  + Date and time shipment started
  + Date and time shipment ended
  + Truck Id
  + Truck Brand
  + Truck Name
  + Route Start point (warehouse Id, city and state)
  + Route End point (warehouse Id, city and state)
  + Status
  + Total weight of all cargo packages in this shipment
  + Total volume of all cargo packages in this shipment
  + Count of cargo packages in this shipment
  + Percentage of utilized Capacity of the truck (Total cargo volume / truck capacity \* 100)
  + Percentage of utilized Payload of the truck (Total cargo weight / truck payload\* 100)
* If missing data in the table, please generate and insert test data.

Good luck and enjoy!

Criteria:

Task 1: 0 – 3 points

Task 2: 0 - 3 points

Task 3: 0 – 2 points

Task 4: 0 – 2 points