

P: 25/03/2019

Master in Informatics and Computing Engineering
Database and Web Applications Laboratory
Instance: 2018/2019

Practical work #7 :: Week of 25/03/2019

Goals

By the end of this class, the student should be able to:

- Identify and create constraints needed to verify the business rules
- Estimate the expected database workload
- Develop the database Physical Schema
- Create and populate a PostgreSQL database

Materials

- J. Correia Lopes, Sérgio Nunes, [Integrity constraints, Indexes, triggers and user functions \(A6\)](#), March 2019
- J. Correia Lopes, Sérgio Nunes. [MediaLibrary project](#), March 2019
- J. Correia Lopes, Sérgio Nunes. [Template for A6](#), March 2019
- J. Correia Lopes, Sérgio Nunes. [Persist data with PostgreSQL](#), March 2019
- Generate data to populate the database: [generatedata.com](#) | [Spawner Data Generator](#)

Tasks

- Present the artefact A5 (Relational Schema, validation and schema refinement).
- Identify and create constraints needed to verify the business rules, including triggers.
- Estimate the expected database workload.
- Identify and justify the creation of indexes.
- Create the database using PostgreSQL.
- Populate the database with plausible data and with sufficient number of tuples for testing purposes.

Summary

- Integrity constraints and triggers. PostgreSQL database. Presentation of the artefact A5 (Relational Schema, validation and schema refinement).¹⁾

— *LBAW, 2018/19*

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1)

Verificação de regras de integridade. Criação da base de dados em PostgreSQL. Apresentação do artefacto A5 (Esquema Relacional. Validação e afinação do esquema).

From:

<https://web.fe.up.pt/~jlopes/> - **J. Correia Lopes**

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