BUSINESS INTELLIGENCE

Module 2

Module 2 program

Goal: create, feed, and query a data warehouse

- Based on TPC-D benchmark

Conceptual and logical design

- Guided example
- Tool: Indyco Builder (DFM design)

Feeding

- Import data from TPC-D to the DW
- Manage incremental feeding and surrogate keys
- Tool: Tableau Prep

Querying

- Setup hierarchies and run OLAP queries
- Tool: Tableau Desktop

Software

All tools are commercial software (i.e., licenses are needed)
- Lab machines are ready
- Tools can be installed on your machines as well
  - Indyco Builder
  - Tableau Prep
  - Tableau Desktop

One-year licenses available in *Virtuale* for education purpose only
- Individual licenses for Tableau products can be requested individually here as long as you are students

Database connection details

DBMS: PostgreSQL

Host: 137.204.78.85

Port: 5432

Database: bi

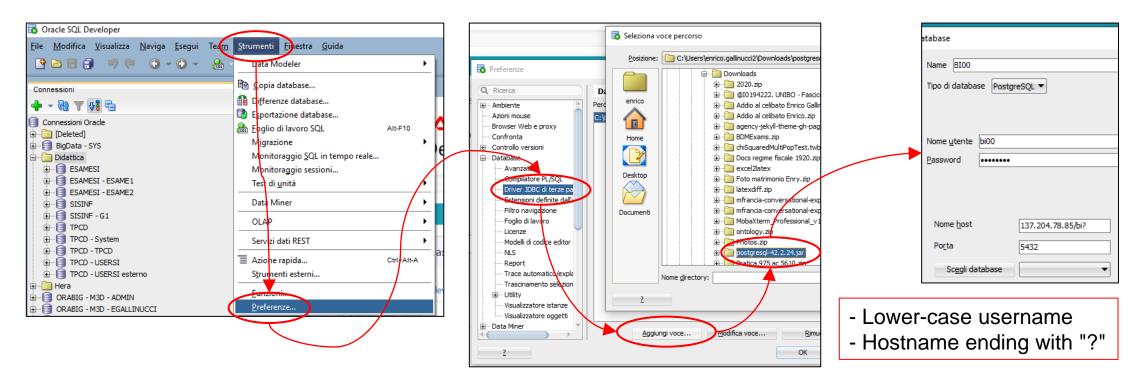Credentials: *check Credentials.pdf file in Virtuale*

Schema: tpcd

Accessibility: 24/7, even outside the Unibo network

Database connection with SQL Developer

(PGAdmin is not installed in laboratory machines)

Download PostgreSQL's latest driver from [here](#)

- Lower-case username
- Hostname ending with "?"

Exam

The content of this module will be part of the final exam

- A single 30-minutes exercise
- Either about DW feeding (with Tableau Prep) or DW querying (with Tableau Desktop)
    - On a different database, of course
- Right before/after the main written exam
- Evaluation: 6/32 points (probably)