Introduction to Databases
Homework n. 2 - SQL

1. Given the following relational schema:

    TRAINER (<u>SSN</u>, Name, Surname, City)

    GYM (<u>CodG</u>, NameP, City, Address)

    SPECIALTY (<u>CodS</u>, NameS, Description)

    GROUP_LESSON (<u>SSN</u>, <u>CodG</u>, <u>Date</u>, CodS, ParticipantsNumber)

    Write the following queries in SQL language:

    a. Show SSN, name and surname of every personal trainer who gave group lessons in at least 3 different gyms located in Turin.

    b. For each gym in which more than 10 Karate group lessons (NameS = "Karate") have been conducted, show the code of the gym and, separately for each trainer, the total number of participants to the group lessons (of any specialty) given by the trainer in that gym.

    c. For each personal trainer who gave group lessons at every gym in his city, show name, surname and the number of specialties for which he gave lessons.

2. Given the following relational schema:

    USER (<u>SSN</u>, NameU, SurnameU, City, YearOfBirth, UserType)

    MOVIE (<u>CodM</u>, Title, Nation, Language, MovieStudio, Genre)

    EVALUATION (<u>SSN</u>, <u>CodM</u>, Evaluation, Date)

    Write the following queries in SQL language:

    a. For each user type, show the average evaluation given to movies produced by "Marvel" (MovieStudio = "Marvel").

    b. For each user belonging to type "Expert" who has never evaluated movies of genre "Horror" but has evaluated at least 3 movies of genre "Comedy", show name, surname and the highest evaluation assigned to movies in language "Italian".