Database Systems 10127

Database Project

Due Date:

Presentation – Last week of class

Products – January 31st

The projects will be carried out in groups of three students

Please submit your groups by December 27th. You may work with students from another class.

1. Select one of the following topics:
   1. Polling place (קלפי) in the upcoming election
   2. Waze carpool
   3. A small regional airport
   4. Travel agency
2. Foundations – prepare the following:
   1. A general description of the system and the data needed for managing it
   2. Requirements for the system – what is the database for
   3. Define two user types for the system
   4. Describe the entities in the database (at least 6 entities) and the relationships between them
   5. Create an ERD for your system
3. Creating the database
   1. Create the database with CREATE commands
   2. Fill the database with data using either INSERT commands or UPLOAD from a file
4. Querying the database
   1. Write at least twelve SELECT commands to be performed by the user. Credit will be given for complexity of the queries
   2. Write at least four INSERT/UPDATE/DELETE commands to be performed by the user

Be sure to include commands for both users defined in 2(c).

1. What to turn in:
   1. A 10-15 minute presentation describing your project, given in the last week of class
      1. Mandatory attendance in the last week
   2. A folder containing all the components described in sections 1-4
      1. Turned into moodle