Holidays in Denmark start here!

Inspiration for this project work: VisitDenmark

Group 1: Create a database for managing “windsurfing gear”
Group 2: Create a database for managing “Hire of canoes”
Group 3: Create a database for managing “Bikes4rent”.
Group 4: Create a database for managing “Rent a cycle-trolley”
Group 5: Create a database for managing “Family holiday on a bike”
Group 6: Create a database for managing “stand-up paddles”
Group 7: Create a database for managing “mountain bikes”
Group 8: Create a database for managing “fishing rods”
Group 9: Create a database for managing “Canoes and kayaks for fishing”
Group 10: Create a database for managing “sea kayak”
Group 11: Create a database for managing “Horseback riding
Group 12: Create a database for managing “Pony-riding”
Group 13: Create a database for managing “golf trips”
Group 14: Create a database for managing “tennis court”
Group 15: Create a database for managing “table tennis”
Group 16: Create a database for managing “Jacuzzi”
Group 17: Create a database for managing “Sauna”

Task 1. Business rules.

Make a description with some basic business rules for your database. (Hint: Which data will your group like to keep track of? How is the relationships? Something similar to the description for the company database.)

Task 2. Develop an EER diagram for your project.

The EER diagram and the associated description should at least show:

- Entities:
  - Strong entity type

  - Weak entity type
- Relationship type:
  - one to one relationship
  - one to many relationship
  - many to many relationship
  - recursive relationship
- Attributes:
  - Single-valued attribute
  - Composite attribute
  - Multi-valued attribute
  - Derived attribute
  - Attributes on relationships
- Keys:
  - Candidate key
  - Primary key
  - Composite key
- Specialization/Generalization
  - Superclass
  - Subclass
  - Participation constraints
  - Disjoint constraint

- Table for domains for some attributes

Task 3. Develop a logical database design for the relational model:

- Go through the mapping steps in chapter 17.
- The result should be a relations overview a la figure 17.8.

Task 4. Create a physical Database

- SQL: Data Definition – see chapter 7.
  - Create tables
  - Create constraints (PK, FK, Referential integrity, Domains etc.)
- SOL: Data Manipulation – see chapter 7.
  - Populate the tables
- SQL: Queries
  - Select, from, where, group by, having, order by
  - Aggregate Functions, comparison, join, exists, subqueries.
- (Start with creating of some questions – and show how these questions are answered the in SQL!)

Hand in Sunday the 22 of April 2018 before 18:00 o'clock in wiseflow.

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