Data management

DIT 032

Assignment 2

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Number of pages in the assignment:

pages

1 + two sql file + 1 .zip file

1. ER Mapping to Relational Schema

‘Check the file travel_planner.sql or run it on cmd by psql -U postgres -d travel_planner -f travel_planner.sql’

First we created all the tables:
We created table “place” and since is the place is subclass to both museum and landmark and since we landmark doesn’t have any attribute and museum only has one, we decided to make one big table with constraint that check that only one of them that can be null , so in that way we solved our first problem.
We created table “user” with contrast to check that email has both “@” and “.” in it.
We created table “favors” between “user” and “place” since the relation between “user” and “place” is N:M relation.
We created the table “follow” to check the one user is given permission to another user to follow him.
We created table “Email” and connected it directly to user throw foreign key since the relation between them is N:1 relation.
We created table “Trip” and since trip is weak entity with weak relation connected to user and the trip and user has two lines in relation so first we made sure that user can’t be “null” and make primary key combined trip destination and user’s email
We created table “day_plan” and since it is a weak entity connected to another weak entity, we had to refer to next strong entity that connects with so day_plans primary key became bay_plans name, trips destination ,and users email and base on the diagram also we added that trip destination can’t be “null”.
We created table “references” since the relation between place and day_plan is N:M relation and references has its own attribute so we had to create a table to that and the primary key for it is location,name for place day_plans name , destination trip, users email.

2. Structured Query language

“Please check the file mondial_queries.sql”

3:Java Database Connectivity(JDBC)

“Please check the jdbc_v2.zip for all solutions”