Lab 7 Entity Relationship Data Model

Submit your work in a pdf and rename the file name as xxxxxx_lab7.pdf (xxxxxx is your student id)

Reference:

- https://www.ibm.com/cloud/learn/data-modeling#toc-types-of-d-Fne2rmPT

- http://www.agiledata.org/essays/dataModeling101.html

- https://www.credera.com/insights/data-modeling-explained-in-10-minutes-or-less

- https://medium.com/sagar-explains-azure-and-analytics-data-engineerin/introduction-to-data-modelling-c0c44432ec0b

Task 1: Consider the following attributes and write each attribute that should belong to one or more of three entities that play a role in a hotel environment: GUEST, HOTEL, and ROOM.

Address	Arrival Date	Family Name
Room Number	Floor Number	Number of Beds
Number of Parking Lots	Price	TV set available?

GUEST	HOTEL	ROOM

Task 2: What information is available in the weather forecast below?

Weather Forecast

January 26

København		1/-5	➤	3
Bremen		0/-3	↙	4
Berlin		3/-1	←	3
München		5/-3	←	3
Amsterdam		8/3	↗	4
Bruxelles		4/0	➤	2
Paris		4/1	➤	3
Bordeaux		7/2	↗	3

Your assignment

1) List as many different types of information that you can find from the weather forecast

a.

b.

c.

d.

e.

f.

g.

h.

i.

j.

2) Group the various types of information into entities and attributes.

Entity	Attributes

3) Name the relationships you discover and draw a conceptual data model diagram (entities/attributes/keys/relationship) by using MySQL Workbench and paste the data model picture below.

Task 3: Analyze the example page from Ralph's famous Raving Recipes book.

Scenario

You work as an analyst for a publishing company that wants to make recipes available on the Web. It wants the public to be able to search for recipes in a very easy way.

<u>**Ralph's Raving Recipes**</u>

Soups	**Açorda alentejana** **bread soup from Portugal**
vegetarian 15 min easy	**For 4 persons:** 1 onion 4 cloves of garlic 1 red pepper 1 liter of vegetable broth 4 tablespoons of olive oil 4 fresh eggs 1 handful of parsley or coriander salt, pepper 9-12 slices of (old) bread
Preparation	Cut the onion into small pieces and fry together with the garlic. Wash the red pepper, cut it in half, remove the seeds and fry it for at least 15.

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2. Group the various types of information into entities and attributes.

Entity	Attributes

3. Name the relationships you discover and draw a conceptual data model diagram (entities/attributes/keys/relationship) by using MySQL Workbench and paste the data model picture below.