BSc Web Technologies

Database Project

Due Date 07 Dec 2016

The aim of the project is to assess the student's ability to design and construct a database that can be deployed in a commercial database management system. The initial phase of the project requires the student to design a relational database for a scenario (pick one model) given out in class or a model agreed with me. The business rules of the scenario must be developed and implemented via the database schema and queries as follows:

1. Relational Schema
    a. Tables
    b. Attributes
    c. Primary Keys
    d. Foreign Keys
2. Test Data
3. Queries
    a. Select
    b. Insert
    c. Update
    d. Delete

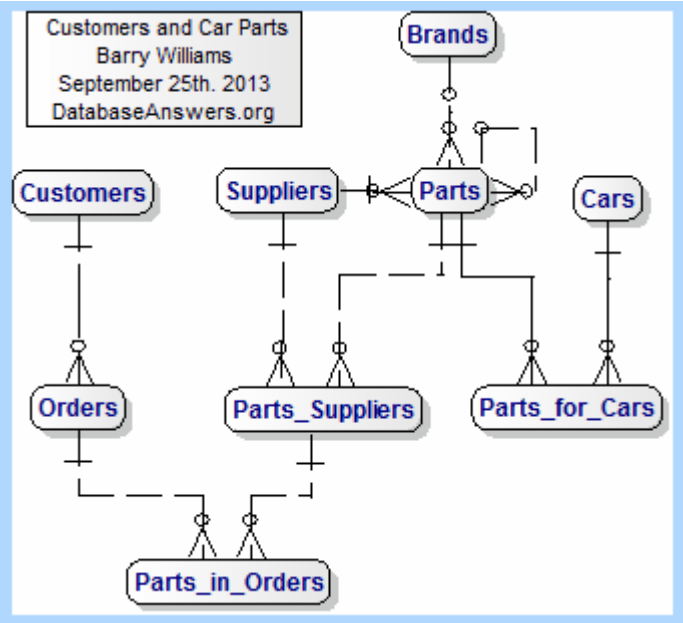
The second requirement of the project is to use the database created to demonstrate Codds rules with respect to your individual database. The first 10 rules MUST be demonstrated using SQL including an explanation (rules 11 and 12 do not require SQL).

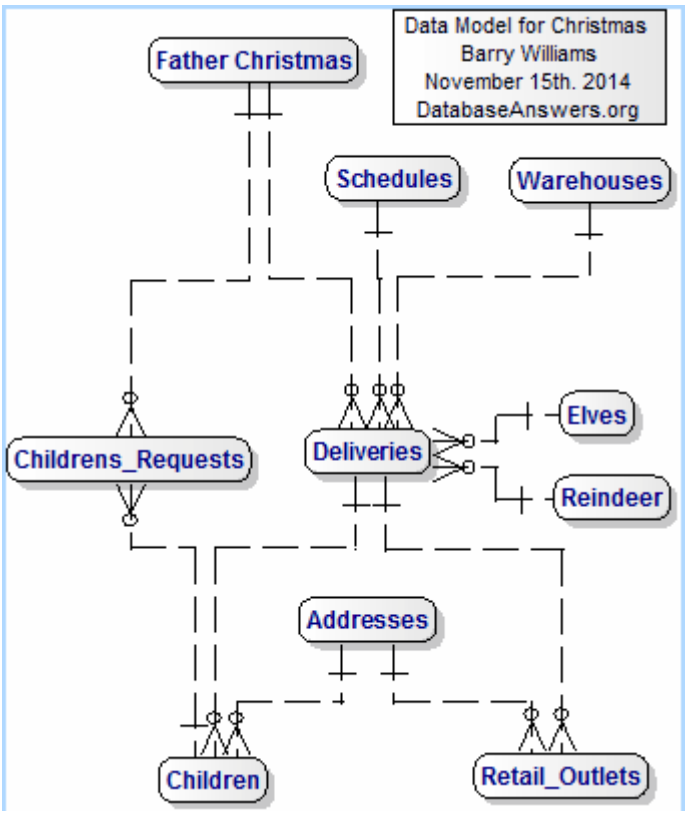
The above are to be submitted to Moodle as follows:

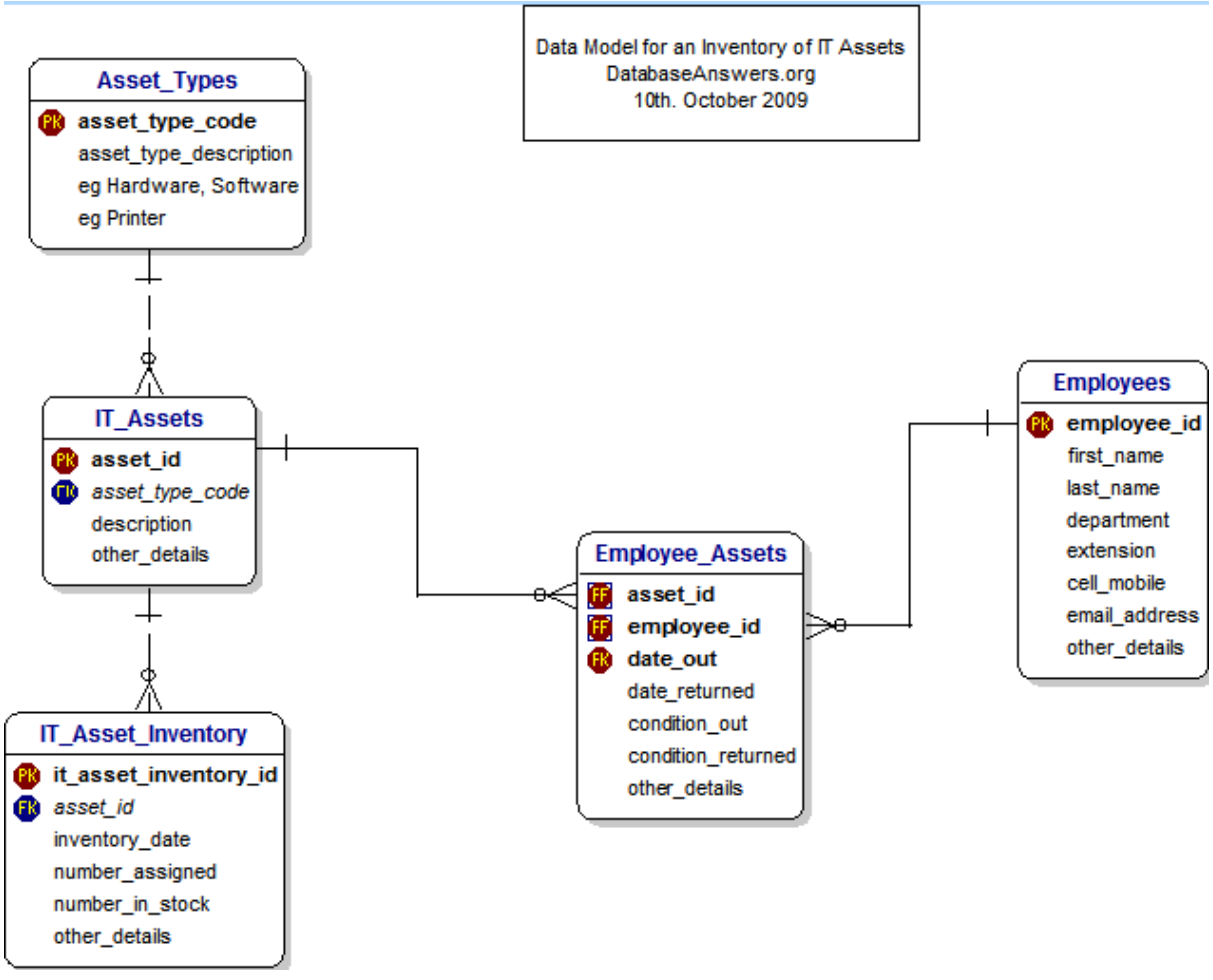
1. Relational Schema
    a. PDF schematic of the database i.e. tables and relationships
    b. SQL script to create the schema (CREATE COMMANDS) along with comments.
2. Test Data
    a. SQL script to INSERT data along with comments.
3. Queries
    a. One SQL script with each query separated along with comments.
4. PDF file with each of Codds Rules clearly labeled and demonstrated.
5. Project Report (1 page)

Marks Awarded for the following:

1. Functionality (Working application)
2. Architecture (Data Model)
3. Complexity
4. Originality / Innovation
5. Completeness




Data Model for Christmas
Barry Williams
November 15th. 2014
DatabaseAnswers.org
Father Christmas
Schedules
Warehouses
Childrens_Requests
Deliveries
Elves
Reindeer
Addresses
Children
Retail_Outlets


Data Model for an Inventory of IT Assets
DatabaseAnswers.org
10th. October 2009
Asset_Types
PK asset_type_code
asset_type_description
eg Hardware, Software
eg Printer
IT_Assets
PK asset_id
FK asset_type_code
description
other_details
IT_Asset_Inventory
PK it_asset_inventory_id
FK asset_id
inventory_date
number_assigned
number_in_stock
other_details
Employee_Assets
FF asset_id
FF employee_id
FK date_out
date_returned
condition_out
condition_returned
other_details
Employees
PK employee_id
first_name
last_name
department
extension
cell_mobile
email_address
other_details