

## Assignment 3

### Mini Project:

This assignment is done in stages. You are required to submit a stage every week. Use the example of the Saloon Database from <http://holowczak.com/the-hair-salon-database-project/>

You can also use examples from [http://www.databaseanswers.org/data\\_models/](http://www.databaseanswers.org/data_models/)

Stage	DELIVERABLE
Assignment 3 Stage 1  <b>Due date: 08 May</b>	<b>Project Description</b> Choose a real-world scenario for which you will design and implement a database application system. Prepare a description (not more than one page) of the business rules and requirements for the mini-project. Include a project title and your full name and student number. Think of something simple. Do not take something from the Internet. I will be checking.
Assignment 3 Stage 2  <b>Due date: 15 May</b>	<b>Entity-Relationship Diagram</b> Using the business rules, identify entities, attributes, relationships between entities and constraints for your database and draw an ERD using the Unified Modelling Language (UML) notation. You can use MySQL Workbench to draw your diagram. Minimum of FIVE entities.
Assignment 3 Stage 3  <b>Due date: 22 May</b>	<b>Relational Database Schema</b> Create the database schema from the ERD, which is a mapping of the entities into database relations. All the relations must conform to 3 <sup>rd</sup> Normal Form (3NF). Ensure entity and referential integrity by indicating all primary and foreign keys.

Assignment 3 Stage 4  <b>Due date: 29 May</b>	<b>Database Application System</b>  Implement the database schema in MySQL or MS Access by creating the database tables. Create forms using Java for MySQL or MS Access databases for data capture and populate your tables with sample data. Create a few report bases on your quires. Include functionality that will enable a user to add, modify and delete some records from the database. Include a navigation form.
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