
Sample Assignment: Unit 18 Database Design

ASSIGNMENT 2 – BOOKSHOP

This assignment will allow you to meet all of the assessment requirements for Unit 18: Database Design. You should look at the Assessment Evidence Grid to check what you need to demonstrate in each task to achieve each mark band.

A bookshop requires a database to hold details of customers, orders and books. The input data and output requirements are given in the following table.

Input Data	Customer details Book details Order details
Output Requirements	Invoice Unpaid Invoices Customers not ordered in last 2 months Inventory list

Before you start creating the database on the computer you will need to plan your database by producing the following:

- Detailed notes to identify that the data is correctly normalised to at least first normal form (1NF) – to achieve mark band 3 you must show that the data is correctly normalised to third normal form (3NF)
- An entity relationship diagram (ERD)
- A data dictionary
- Draft designs of the user interface, reports and data entry forms.

What to Produce:

A **working relational database** with at least **three** related tables and an easy to use user interface plus the following documentation:

Technical Documentation

- A copy of the specification agreed with the user
- Details of hardware, software and other resources required
- Detailed notes to identify that the data is correctly normalised to 1NF or 3NF
- An ERD
- A data dictionary that includes the range of acceptable data
- Draft designs of user interface, reports and data entry forms
- Annotated reports, queries and data entry forms
- Details of any program code (macros)
- Test procedures and proof of testing.

User Manual

This needs to be simple enough for a novice to use the system and explain step by step how to do each task in your database. It should also include example forms and reports.

Evaluation

Evaluate your completed database commenting on how well your solution meets the user requirements, identifying strengths and weaknesses and make suggestions for improvements taking into account of user feedback.

You should also produce an evaluation of your own performance in creating the database and associated documentation. This should include strengths and weaknesses and suggest improvements to show how you could be more effective in the future.