

# EEEE4115: Course work 2 - Database tasks 2024/25

On moodle you will find in the Excel Document

*Data for CW2 of EEEE4115 - 24\_25*

which contains data for a fictitious sales company with both physical stores and an on-line presence.

A database is to be created in Access to hold this information (note: You are not required to import the data, though you may wish to enter a few sample rows) and from which a set queries/reports can be generated.

The practical tasks you are required to complete are as follows

## 1. Database Table generation

- To rationalise the data into a series of tables
- Define the relationships between the tables; they must be created in such a fashion as to ensure complete data integrity across the database

Note: You are required to produce a supplementary report outlining

1. Your rationale for the grouping of data (i.e., why each table was created)
2. How you decided on the properties of the various fields
3. The nature of the relationships between tables
4. What tables would be 'pre-populated' and which would be allowed to 'grow'

## 3. Reporting Queries

Once the tables have been created, you are to generate reporting queries to achieve the following

- Q1 Produce a list of the products (e.g. a product catalogue) sorted by
  - Category
  - Sub-category
  - A-Z on product name
- Q2 The average delivery time for on-line purchases sorted by
  - Year
  - Quarter
  - Country
- Q3 Total product sales by category/sub-category for a user specified year (Access can prompt you for this). Sorting is to be category/sub-category sorted alphabetically.
- Q4 A report on average order value for on-line and on-store sales for a given country for all years for which data is available. Results are sorted year ascending

### Note well:

- Queries should provide such fields as would make the data usable (likewise, they should also not include 'all' fields so avoid the use of '\*' to return all fields!)
- For Q3 & Q4 if the user is NOT prompted for the information this greatly restricts the rubric options available.

## 3. Reports

- Develop high-quality reports to display, in a format suitable for printing, the results of the queries

#### 4. Submission details/Marking Approach

You need to upload your database file (the '.acldb' file) and your report on the rationale for your scheme design as the submissions for this coursework.

As a final reminder.. The names of tables, queries, reports etc. should be appropriate to the task each performs

The marking for this task is as per the rubric supplied on Moodle.

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