

# Section 08.2 - Database Management System (DBMS)

## Layer 7: Application

### Syllabus Content Section 08: Databases

#### S08.2.1 Show understanding of the features provided by a Database Management System (DBMS) that address the issues of a file based approach

Including:

- data management, including maintaining a data dictionary
- data modelling
- logical schema
- data integrity
- data security, including backup procedures and the use of access rights to individuals / groups of users

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**Data management system (DBMS)**: soft ware that controls access to data in a database

**Database administrator (DBA)**: a person who uses the DBMS to customise the database to suit user and programmer requirements

#### S08.2.2 Show understanding of how software tools found within a DBMS are used in practice

Including the use and purpose of:

- developer interface
- query processor

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**Developer interface**: gives access to soft ware tools provided by a DBMS for creating tables

**Query processor**: soft ware tools provided by a DBMS to allow creation and execution of a query

**Query**: used to select data from a database subject to defined conditions