*Presentation pattern     February to October*

*Module description*

This advanced computing module offers perspectives on relational databases. It introduces database management systems and the facilities required to store and access large collections of data in a shared user environment. This is followed by a theory of relations, underpinning topics such as data modelling and database architecture; the database language SQL; and the development of a practical database system. Also considered are issues surrounding the on-going development and application of relational database technologies, including the role of JAVA and XML. Students should be familiar with computers, particularly program construction and using files and operating systems, as taught in our Level 2 computing modules.

*Person specification*

The person specification for this module should be read in conjunction with the [generic person specification](#) for an associate lecturer at The Open University.

As well as meeting all the requirements set out in the generic person specification, you should have:

- broad experience of the theory and practical application of databases using SQL. You could have either an academic or commercial or industrial background.

It would be an advantage to have:

- experience of using electronic forms in distance teaching and support (but training is provided if needed).

*Additional information*

The module also includes two units of work looking at advanced database technology in the context of XML (with the main requirement being to support the use of XML in a business context, particularly the interchange of data such as messages, workflow and web services) and application development for databases, specifically oriented towards Java. Some familiarity with this material may be useful.

*Module related details - a full explanation can be found on the website*

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| Credits awarded to the student for the successful completion of a module: | 30 |
| Number of assignments submitted by the student: | 4 |
| Method of submission for assignments: | 1a |
| Level of ICT requirements: | 2 |
| Number of students likely to be in a standard group: | 20 |
| Salary band: | 3 |
| Estimated number of hours per teaching week: | 3 |