

				Notes
Schedule of Assessed Exercises				
Week	Topic	Assignment	Written Report Required	Level
1	Database Terminology: Basic Introduction to terms Loading a DBMS into the computer Listing the contents of a Database table	Exercise 1 (Amending structure of table & adding data)	No	NOC 2
2	Retrieving Data from a Database Introduction to Boolean logic Venn Diagrams Listing Simple Subsets of Data Use of complex filter conditions (AND/OR) Design queries	Exercise 2 Design Queries	No	NOC 2
3	Printing formatted data Designing simple reports Ordering data in a report Section headers & footers Calculated fields & page numbers Base reports on both tables and on queries	Exercise 3 Reports	No	NOC 2
4	Design forms for add, Delete, View Base Forms on tables and on queries Create a menu system using forms	Exercise 4 Queries	No	NOC 2
5	Review and consolidation: (optionally, this week can be used to extend your technical knowledge of macros) Design, edit & run macros Use macros to create a complex menu system End of optional section	Exercise 5 (optional) Macros	N/A	N/A
6	Design a simple relational database Add a second table (CARS) to the database Use INNER, RIGHT and LEFT joins Design a report based on a relational view	Exercise 6 Studrec & Cars	No	NOC 3
7	Normalisation of data 1st, 2nd & 3rd Normalisation rules extending the design of the existing database Designing a class register system Short Report on the uses of a database in an organisation	Exercise 7 Creating Class Lists	Yes	NOC 3
8	Basic Entity Relation Modelling Extending the database to include class details ER Model of extended database	Exercise 8	Yes	CATS 1
9	Data Warehousing An exploration of the recent developments in database management systems. Differentiating between OLTP and OLAP systems.	Exercise 9	Yes	CATS 1
10	Consolidation and course evaluation:			
11	Optional section: Structured Query Language Describe the origins and purpose of SQL Describe the main DML, DDL and DQL SQL statements Use SQL statements to select subsets of data Use the SELECT statement to filter columns Use the SELECT statement to order output Use the JOIN statement to create VIEWS	Exercise 10	No	N/A



Notes

The work will be continually assessed.

There will be a rolling deadline of two weeks, i.e. work set in week 7 of the course will be expected to be handed in for marking in week 9 of the course. Work set in week 9 will be expected to be submitted for marking one week after the end of the module.

Note: When completing exercises 7, 8 and 9 please remember that the standard of your analysis and written work will determine whether you achieve at OCN 2, OCN3 or CATS1.

It is your responsibility to keep your work in a neat and easily accessible manner, it may be required for moderation.

