
GLH Scheme: Unit 18 Database Design

Hour	Topic
1	Introduction to Unit 18: <i>Database Design</i>
2	1.1 Database Concepts: <ul style="list-style-type: none">• Areas where databases are used• Database structure:<ul style="list-style-type: none">(i) Tables and relationships(ii) Data types(iii) Data formats(iv) Validation.
3 – 6	1.2 Investigating Commercial Databases: <ul style="list-style-type: none">• User interface• Inputs and output• Data structure.
7 – 9	1.3 Logical Data Modelling: <ul style="list-style-type: none">• Entities, attributes, relationships and keys• Creating initial logical model• Analysing and resolving initial data model.
10 – 12	1.4 Normalisation: <ul style="list-style-type: none">• First normal form• Second normal form• Third normal form• Entity relationship diagrams• Data dictionaries.
13 – 14	1.5 Relational Database Structures: <ul style="list-style-type: none">• Terminology• Using logical data model to create database structure.
15 – 23	1.6 Relational Database Construction: <ul style="list-style-type: none">• Building the database structure• Creating data entry forms• Producing queries and reports• Customising the user interface.

Hour	Topic
24 – 27	1.7 Testing: <ul style="list-style-type: none"> • Creating a test specification • Normal, extreme and abnormal data • Functional testing • Testing specifications are met.
28 – 30	1.8 Documentation: <ul style="list-style-type: none"> • User documentation • Technical Documentation.