

Advanced Diploma in Business Administration & Database Technology (900) – Management Information Systems & Database Technology

| Aim: This course will integrate Management Information Systems (MIS) with Oracle SQL. MIS is undertaken as theory while Oracle SQL is undertaken as practical sessions. MIS introduces the use of information systems in business organisations. The role of information systems in intending current professional practices and methodologies are described. Topics include the general systems theory, decision theory, organisational models, types and benefits of information systems, systems theory, decision theory, organisational models, types and benefits of information systems, systems planning and development, and management and control of information systems, systems planning and development, and management and control of information systems, concepts of information systems, business process, hardware, software, systems analysis, e-commerce, enterprise systems and computer applications in organisations, techniques of systems analysis, systems designs, implementations, and information management (both technical and behavioural) are covered as well. Practical sessions focus on fundamentals of relational databases; relational data model, SQL and basic query formulation. Required Materials: Recommended learning sources. Special Requirements: Oracle SQL is a hands-on course, hence practical use of computers is essential. Requires intensive lab work outside of class time. Intended Learning Outcomes: (Practical sessions – ORACLE SQL) 1 Describe a Database Management System (DBMS) and its functions. 2 Understand how to write basic SQL statements. 2 Understand how to write basic SQL statements. 2 Understand how to write basic SQL statements. 2 Explore rules and guidelines of constructing SQL statements 2.1 Analyse components of a basic SELECT statements 2.2 Explore rules and guidelines of constructing SQL statements 2.3 Investigate different methods of executing SQL statements 2.4 Define the keyword* *(asterisk)* 2.5 Define how to suppress duplicate rows 2.1 Define bow to suppress duplicate rows 2.1 Define SQL | | Prerequisites: General database knowledge | Corequ | uisites: A pass or better in Diploma in | | |
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IS NULL operators

Define logical operators Define the ORDER BY clause

Define SQL wildcard characters

| | 3.8 Understand how to sort in SQL |
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| | 4.1 Define case conversion functions |
| | 4.2 Define character manipulations functions |
| 4 Understand how built-in functions are | 4.3 Describe number functions |
| used in SQL | 4.4 Define functions of SYSDATE |
| _ | 4.5 Analyse Oracle date functions |
| 5 II. danstand harry annua famatiana annuat | 5.1 Describe the different terms of arrange |
| 5 Understand how group functions operate | 5.1 Describe the different types of group functions |
| on a set of rows to give one result. | 5.2 Demonstrate how group functions |
| | operate with NULL values |
| | |
| 6 Understand how to create tables | 6.1 Define Oracle data types 6.2 Describe the components of CREATE |
| | ı |
| | TABLE statement 6.3 Describe how to INSERT data into a |
| | table |
| | 6.4 Understand the ALTER TABLE statement |
| | 6.5 Demonstrate how to modify a column |
| | 6.6 Demonstrate how to drop a column |
| | 6.7 Demonstrate how to drop a column |
| | 6.8 Demonstrate how to update rows |
| 7 Understand how constraints are used to | 7.1 Describe lets intermites and sixty |
| , | 7.1 Describe data integrity constraints 7.2 Illustrate how to view constraints |
| prevent invalid data entry into tables. | 7.2 Indistrate now to view constraints 7.3 Define a sequence |
| | 7.4 Illustrate how to create and implement a |
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| | 3.6 | Describe the problems likely to be encountered if one needs to connect to a supplier in a different country. |
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| 4 Analyse the importance of computer security. Describe the process of protecting | 4.1 | Describe the primary threats to an information system. |
| information resources. | 4.2 | Describe the primary options used to provide computer security. What non-computer-based tools can be used to provide additional security. |
| | 4.3 | Describe additional benefits provided by encryption. |
| | 4.4 | Describe computer crime. What special security problems arise in e-commerce. |
| 5 Describe database transactions and operations. Relate and analyse database software | 5.1 | What are the major elements and risks of a database transaction. |
| programs. | 5.2 | Describe how a database transaction is written to a computer. |
| 6 Describe enterprise integration. Describe the process of integrating data and systems. | 6.1 | How is data combined across functional areas, including production, purchasing, |
| | 6.2 | marketing, and accounting. Describe the process of tracking and comparing financial information of a firm. |
| | 6.3 | Describe the transaction elements in the human resources management system |
| | 6.4 | How can production be made more efficient. |
| 7 How do businesses make decisions. Describe good and bad decisions. | 7.1 | Describe how a decision support system help analyse data |
| | 7.2 7.3 | Describe an expert system. What is an intelligent machine. How can more intelligent systems benefit ebusiness. |
| 8 Describe how the use of information technology can improve an organisation. What are | 8.1 | Describe how IT can be used to gain a competitive advantage. |
| the main factors affecting a firm's competitive advantage. | 8.2 | How can IT support the operations of the firm to provide a competitive advantage. |
| auvantage. | 8.3 | Describe why it is difficult to convince management to make strategic changes. What are the risks of strategic decisions. |
| 9 Describe the main options for building information systems. | 9.1 | Describe how to control a major development project. Why is control so |
| | 9.2 | important. Describe other methodologies apart from System Development Life Cycle (SDLC) approach. |
| | 9.3 | Analyse and annotate a process-based |
| | 9.4 | system . Describe how object-oriented design is different from process design. |
| 10 Describe the roles and tasks the MIS | 10.1 | Describe MIS jobs are available, and |
| department perform. | 10.2 | how much it costs to hire IT employees. Describe centralisation and decentralisation |

| 11 Describe the relation between | 11.1 Describe how information technology |
|-------------------------------------|---|
| Information Management and Society. | affect individuals. |
| | 11.2 Describe how technology affect jobs. |
| | Does technology change the relationship |
| | between businesses and consumers. |
| | 11.3 How does technology affect different |
| | areas of society. |
| | 11.4 How can information technology |
| | improve governments. |
| | 11.5 Describe the major laws that affect |
| | technology and the use of computers. |
| | |

Methods of Evaluation: A 3-hour essay written examination paper with 5 questions, each carrying 20 marks. Written examination questions will be based on <u>Management Information System</u> only. Candidates are required to answer all questions. Candidates also undertake project/coursework in both Management Information System (MIS) and Oracle SQL, each with a weighting of 100%.

Recommended Learning Resources: Management Information Systems & Database Technology

| | 1 ecnnology | |
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| | SQL/Relational Database | |
| | Database Concepts by David M. Kroenke 2nd Edition. ISBN 10: 0131451413 | |
| | Database Design, Application Development & Administration. ISBN 0072942207 / 9780072942200 | |
| | Database Management Systems by Jerry Post. ISBN 0072472421 | |
| Text Books | Database Processing – Fundamentals, Design and Implementation. ISBN 10: 0131015141 | |
| | Relational Database Principles (Paperback) by C. Ritchie (Author). ISBN-10: 0826457134 | |
| | Relational Database Design and Implementation: Clearly Explained 3e: Clearly Explained (Paperback) by Jan L. Harrington. ISBN-10: 0123747309 | |
| | Management Information Systems | |
| | Management Information Systems (Paperback) by T. Lucey. ISBN- 10: 1844801268 | |
| | information systems training ement in Tractice (Tupercuent) by | |
| | Barbara C. McNurlin and Ralph H. Sprague. ISBN-10: 0131968777 | |
| | | |
| | Jane P. Laudon and Kenneth C. Laudon. ISBN-10: 0130193232 | |
| Study Manuals | | |
| | BCE produced study packs | |
| CD ROM | | |
| | Power-point slides | |
| Software | | |
| · | Oracle SQL Plus | |