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DATABASE: FOUNDATION LEVEL

OBJECTIVES

- Provide basic knowledge on database systems.
- Introduce entity-relationship models for databases.
- Provide knowledge on SQL command/scripting.
- Introductory knowledge on design of DBMS systems.

TARGET GROUPS

- Fresh graduates willing to learn database.
- Professionals having little/no experience in database.
- Professionals with low confidence in database.

TRAINING METHOD

- Presentation classes and labs
- Self-study materials
- Assignments

COURSE BREAKDOWN

DATABASE SYSTEM

1. Introduction
2. Advantage of DBMS

DATABASE MODEL

1. Hierarchical Model
2. Network Model
3. Relational Model
 - 3.1. Data Structure and Terminology
 - 3.2. Characteristics of Relational Model
 - 3.3. Relationships and Key
 - 3.4. Data Integrity



INTRODUCTION TO SQL

- 1.1. SQL Data Definition Language (DDL)
- 1.2. SQL Data Manipulation Language (DML)
- 1.3. SQL Platforms
 - 1.3.1. MySQL and PostgreSQL
 - 1.3.2. SQL-SQL Server
 - 1.3.3. SQL-DB2 and Oracle
- 1.4. SQL Data Definition Language (DDL)
 - 1.4.1. SQL-Create Database and Table
 - 1.4.1.1. Create Database
 - 1.4.1.2. Create Table
- 1.5. SQL Data Manipulation Language (DML)
 - 1.5.1. Data Types
 - 1.5.2. The SQL SELECT Statement
 - 1.5.2.1. Select All Columns
 - 1.5.2.2. The SELECT DISTINCT Statement
 - 1.5.3. The WHERE Clause
 - 1.5.3.1. Using the WHERE Clause
 - 1.5.4. The LIKE Condition
 - 1.5.5. SQL AND & OR, Logical Operators
 - 1.5.6. SQL IN Logical Operator
 - 1.5.7. SQL BETWEEN ... AND Operator
 - 1.5.8. SQL GROUP BY and HAVING
 - 1.5.9. SQL ORDER BY
 - 1.5.10. SQL SELECT INTO Statement
 - 1.5.11. SQL CREATE VIEW Statement
 - 1.5.12. The INSERT INTO Statement
 - 1.5.12.1. Insert Data in Specified Columns
 - 1.5.13. The Update Statement
 - 1.5.13.1. Update one Column in a Row
 - 1.5.13.2. Update several Columns in a Row
 - 1.5.14. The DELETE Statement
 - 1.5.14.1. Delete All Rows
 - 1.5.15. SQL Alias
 - 1.5.15.1. Column Name Alias
 - 1.5.15.2. Table Name Alias
- 1.6. SQL JOIN
 - 1.6.1. SQL Inner Join
 - 1.6.2. SQL LEFT JOIN (Outer Join)
 - 1.6.3. SQL RIGHT JOIN (Outer Join)
 - 1.6.4. SQL FULL Join (outer Join)



- 1.6.5. SQL Cross Join
- 1.6.6. SQL UNION and UNION ALL
- 1.7. DELETE DATA | TABLE or DATABASE
 - 1.7.1. Delete records from a table
 - 1.7.2. Truncate a Table
 - 1.7.3. Drop database
- 1.8. SQL ALTER TABLE
 - 1.8.1. Alter Table

COURSE DURATION

Applicants can prefer one of the following patterns:

- Pattern 1 (Regular Classes)
 - 1 month
 - 2 hours per day
 - 5 days per week
 - 40 hours total
- Pattern 2 (Weekend Classes)
 - Around 2 months or more
 - 2 days per week
 - 6 hours to 8 hours per week
 - 40 hours total
- Pattern 3 (Saturday Classes)
 - 4 Hours per week for 10 weeks
 - 40 hours total

FEE STRUCTURE

- Foundation Level: NPR 6,000 (payable at the time of admission)

SCHOLARSHIP/GRANT

- Full/partial scholarships and grants available for deserving candidates.

HOW TO APPLY

- Please email your resume with application letter to trainee@dwit.edu.np.
- Selected candidates will be called for a placement test and an interview.