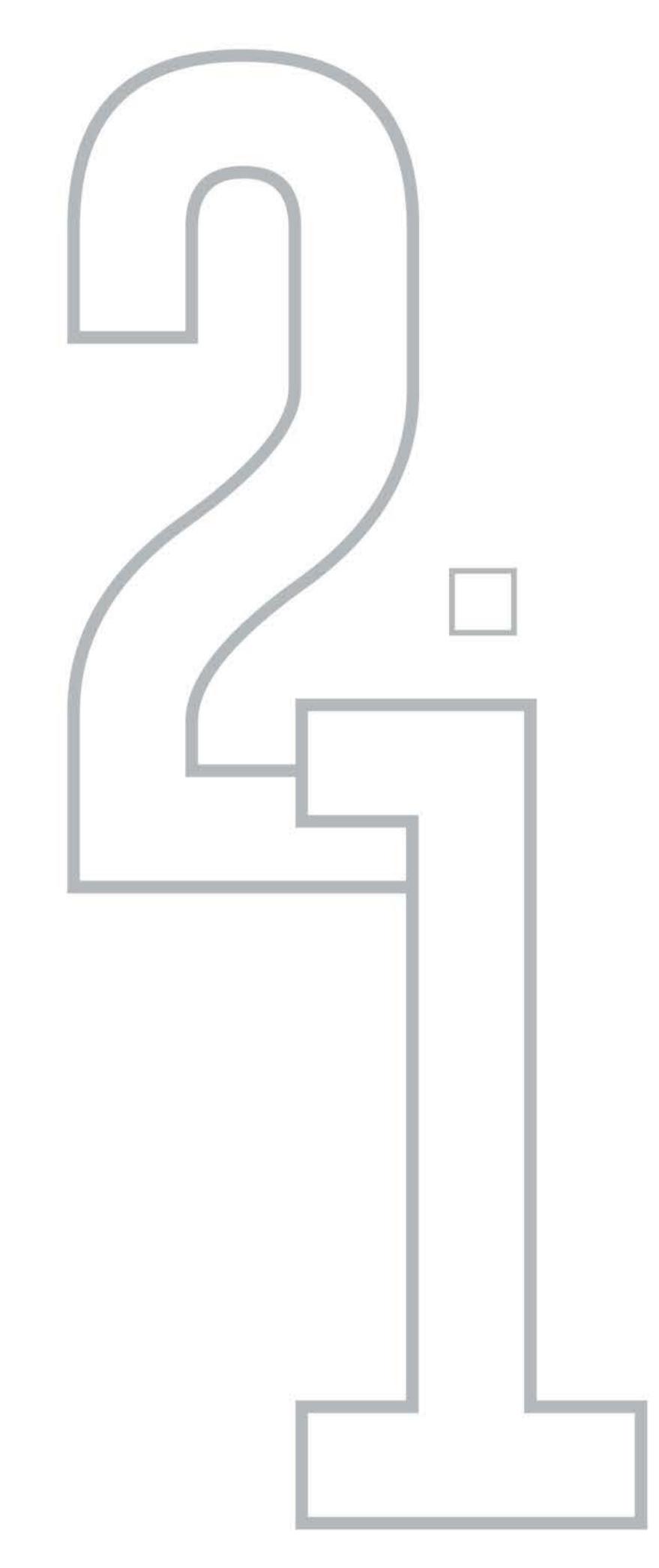


VERSION



SR. CODE

EAPL/CRASH/CRTC16

COURSE CODE

EACMS

SUB CATEGORY

DATABASE MANAGEMENT







ELYSIUM CORE MSSQL ELYSIUM ACADEMY CORE MSSQL CORE MSSQL

ELYSIUM
ACADEMY
CORE MSSQL
ELYSIUM
ACADEMY

ACADEMY CORE MSSQL

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ACADEMY





COURSE DESCRIPTION



The MSSQL course provides in-depth training in Microsoft SQL Server, covering database design, T-SQL programming, stored procedures, and database administration tasks.

COURSE GOALS



By completion, you will proficiently design and administer MSSQL databases, write optimized T-SQL queries, and implement robust database solutions. They will develop the skills necessary to support mission-critical applications and ensure data integrity and security within the SQL Server environment.

FUTURE SCOPE



Graduates will be well-prepared for roles as database administrators, SQL developers, or business intelligence analysts. With SQL Server's widespread adoption in enterprise environments, opportunities for MSSQL professionals are abundant, ensuring a lucrative and stable career path in the data management field.





CHAPTER CHAPTER

GETTING STARTED MSSQL

01. MSSQL

- a. What is MSSQL?
- b. What is difference between MSSQL and MYSQL?
- c. Purpose of MSSQL
- d. Versions of SQL
- e. Advantages and drawbacks
- f. Installation Setup

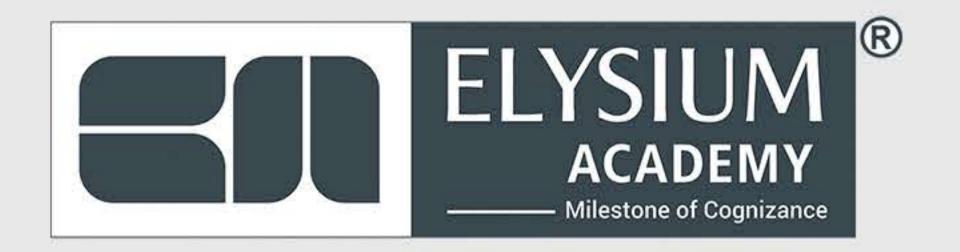
02. Database and tables

- a. What is database?
- b. What is tables?
- c. Create, Alter and drop database
- d.Create, Alter and drop table
- e. Backup and restore a database
- f. RDBMS
- g.ER Model
- h. Hands on create database and tables

03. Common Terminologies in SQL

- a.Data types
- b. Constraints
- c. Foreign key constraints
- d. Unique and check constraint
- e. Hands on data types and constraints
- f. Quiz







04. Normalization

- a. What is normalization?
- b. First Normal Form
- c. Second Normal Form
- d.Third Normal Form Practically Normalizing Tables
- e. Hands on Normalization

CHAPTER

MSSQL COMMANDS

01. Data Definition Language

- a. What is DDL?
- b. Purpose of DDL
- c. CREATE Table
- d.ALTER Table
- e. TRUNCATE Table
- f. RENAME
- g.DROP
- h. Hands on DDL

02. Data Manipulation Language

- a. What is DML?
- b. SELECT
- c. UPDATE
- d.DELETE
- e. INSERT
- f. Hands on DML







03. Data Control Language

- a. What is DCL?
- b. Purpose of DCL
- c. REVOKE
- d.GRANT
- e. Hands on DCL

04. MSSQL Clauses

- a.WHERE
- b.DISTINCT
- c. ORDER BY
- d.GROUP BY
- e. HAVING
- f. FROM
- g.Hands on MSSQL clauses

CHAPTER

MSSQL COMMANDS

01. Conditions

- a.AND
- b.OR
- c. AND OR
- d.Boolean
- e. LIKE
- f. IN
- g.ANY
- h. Exists
- i. NOT







- j. Not Equal
- k. IS NULL
- I. IS NOT NULL
- m. BETWEEN
- n. Hands on conditions

O2. Key

- a.Primary key
- b. Foreign key
- c. Unique key
- d. Hands on key constraints

03. JOINS in MSSQL

- a. What is joins?
- b. Advantages of JOINS.
- c. Types of Joins
- d.INNER JOIN
- f. LEFT JOIN
- h. RIGHT JOIN
- j. CROSS JOIN
- k. Hands on JOIN

04. Indexes and views in MSSQL

- a. What is index?
- b. CREATE index
- c. DROP index
- d.SHOW index
- e. UNIQUE index
- f. Hands on index





CHAPTER

FUNCTIONS, TRANSACTIONS AND AGGRAGATE

01.Functions in MSSQL

- a. What is MSSQL?
- b. What is difference between MSSQL and MYSQL?
- c. Purpose of MSSQL
- d. Versions of SQL
- e. Advantages and drawbacks
- f. Installation Setup

02. Transactions in MSSQL

- a. What is transactions?
- b. COMMIT
- c. ROLLBACK
- d. Hands on transactions

03. Aggregate functions and Triggers

- a. What is aggregate functions?
- b. List the aggregate functions
- c. Hands on aggregate functions
- d. What is Triggers?
- e. Constraints vs Triggers
- f. Creating, Altering, Dropping triggers
- g.for/after/instead of triggers
- h. Using Rollback Tran
- i. Hands on triggers







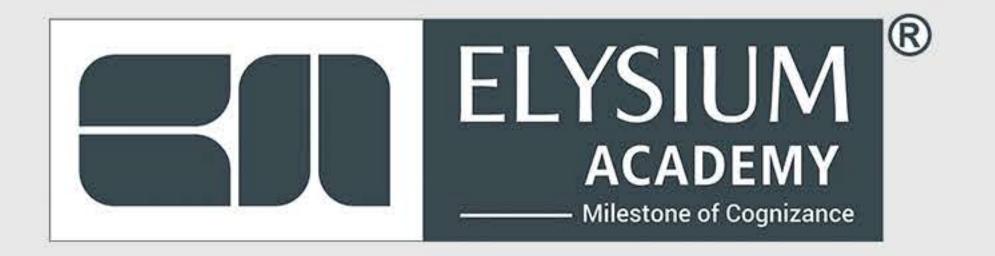
04. Working with cursors

- a. What is cursors?
- b. Creating Cursors
- c. Cursors vs. Select
- d. Types of cursors
- e. Locks on cursors
- f. Advantages of cursors
- g. Hands on cursors
- h. Quiz

05. Backup and restore

- a.Generating SQL Script
- b. Executing SQL Script
- c. Generating Change Script
- d. Taking database Backup
- e. Restoring database using backup
- f. Attaching and Detaching of database
- g. Hands on backup and restore









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