

UNIVERSITY OF MADRAS
MASTER OF COMPUTER APPLICATIONS (MCA) DEGREE PROGRAMME
SYLLABUS WITH EFFECT FROM 2023-2024

Title of the Paper	RDBMS with VB.NET Lab		
Core - VIII Practical - III	I Year & II Semester	Credit:3	435C2D

OBJECTIVES:

- To understand data definitions and data manipulation commands
- To learn the use of nested and join queries
- To understand functions, procedures and procedural extensions of databases
- To be familiar with the use of a front end tool
- To understand design and implementation of typical database applications

List of Experiments:

1. Data Definition Commands, Data Manipulation Commands for inserting, deleting, updating and retrieving Tables and Transaction Control statements.
2. Database Querying–Simple queries, Nested queries, Sub queries and Joins
3. Views, Sequences, Synonyms
4. Database Programming: Implicit and Explicit Cursors
5. Procedures and Functions
6. Triggers
7. Exception Handling
8. Database Design using ER modeling, normalization and Implementation for any application
9. Database Connectivity with Front End Tools
10. Case Study using real life database applications.
 - i. Library Information Processing.
 - ii. Students Mark sheet processing using images.
 - iii. Bank Transactions (SB).
 - iv. Pay roll processing.
 - v. Inventory
 - vi. Purchase order processing.

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Course Outcomes:

On the successful completion of the course, students will be able to

CO1	Use typical data definitions and manipulation commands.	K1-K6
CO2	Design applications to test Nested and Join Queries	K1-K6
CO3	Implement simple applications that use Views	K1-K6
CO4	Implement applications that require a Front-end Tool	K1-K6
CO5	Critically analyze the use of Tables, Views, Functions and Procedures	K1-K6

K1- Remember, K2- Understand, K3- Apply , K4- Analyze, K5- evaluate and K6- Create

Mapping with Programme Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	M	M	S	M	S	L	M	L	L
CO2	S	S	M	S	M	M	L	L	M	L
CO3	L	M	S	L	M	S	S	L	S	M
CO4	S	L	L	M	M	L	M	S	M	S
CO5	M	S	M	L	S	S	M	L	M	L

S-Strong

M-Medium

L-Low