# **Theory Paper**

				Part A Introduction			
Prog	gram: Degree	C	ass:	Year: III	Sessio	n: 2023-24	
				Subject: BCA			
1	Course Co	de		S3-BCAC4G			
2	Course Tit	le	*	MYSQL	(Theory	)	
3	Course Type (Core Course/ Discipline Specific Elective/Elective/Generic Elective/Vocational/)		eric	Elective			
4	Pre-requisite (if any)						
5	Course Learning outcomes (CLO)		omes	<ol> <li>On successful completion of this course, the students will be able to:         <ol> <li>Understand basic concepts of how a database stores information.</li> <li>Gain knowledge Of SQL syntax with MySQL.</li> <li>Design database for an organization and apply various SQL Queries and constructs.</li> </ol> </li> <li>Apply queries to retrieve and manipulate data from one or more tables.</li> <li>Learn how to filter data based upon multiple conditions</li> </ol>			
6	Credit Va	Credit Value Theory 4					
7	Total Mar			Max. Marks: 30 + 70 Min. Passing Marks:35			
			Part	<b>B- Content of the Course</b>			
Tota	l No. of Lect	ures =60 (3	THE STATE OF THE PERSON				
	Total No. of Lectures =60 (3 hours/ Unit Topics				No. of Lectures (1 Hour Each)		
MySQL, need		need Of ments, (es.	atabase and related terms, Introduction to f SQL, features, Data Types, Types of Concept Of Keys, Null values and Not		12		
II		Handling database with MySQL Using Query: Create ,Save edit execute Query for different SQL Statements ,Use the Where clause, Conditional statements, Multiple conditions, Comparison Operators , Logic Values, Null Values, Wildcard characters, Compare Column Values, Distinct Values, Top Values		12			
Ш	I Data Wranglin Summarize Grou		ngling : e Group	: Group Data, Filtering Grouped Data p DataPivot and Unpivot Operators porting Data,Update Data.		12	
IV	7 9	Joins: Inner Join, Left Join, Full C Unions, Except and Intersect, Saving Exporting, Generating Reports		n,Left Join,Full Outer Join, So d Intersect, Saving the Query Res	100	12	
		Exporting.	Genera	iting reports			

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Aggregate Functions, String Functions ,Sort Data ,Rank
Data ,Views in Mysql , Overview Of Transactions
Triggers, Stored Procedures and User Defined Functions.

#### Keywords/Tags:

# **Part C-Learning Resources**

## Text Books, Reference Books, Other resources

#### Suggested Readings:

- 1. "MySQL Workbench: Data Modeling & Development" by Michael McLaughlin
- 2. "MySQL Stored Procedure Programming: Building High-Performance Web Applications in MySQL" by Guy Harrison and Steven Feuerstein
- 3. "MySQL Administrator's Bible" by Sheeri K Cabral and Keith Murphy
- 4. "MySQL Cookbook: Solutions for Database Developers and Administrators" by Paul DuBois
- 5. "MySQL Database Design and Tuning" by Robert D Schneider
- 6. MySQL: The Complete Reference Vikram Vaswani
- 7. मध्य प्रदेश हिन्दी ग्रंथ अकादमी की पुस्तकें।

### Suggestive digital platforms/ web links

- 1. https://www.tutorialspoint.com/mysql/index.htm
- 2.https://www.javatpoint.com/mysql-tutorial
- 3.https://www.w3schools.com/MySQL/default.asp
- 4.https://www.mysqltutorial.org/

### Suggested equivalent online courses:

- 1. https://onlinecourses.nptel.ac.in/noc21 cs04/preview
- 2. https://onlinecourses.swayam2.ac.in/aic20\_sp32/preview
- 3. https://in.coursera.org/courses?query=mysql
- 4. https://www.mygreatlearning.com/academy/learn-for-free/courses/my-sql-basics
- 5. https://www.simplilearn.com/official/site

# Part D-Assessment and Evaluation

# **Suggested Continuous Evaluation Methods:**

Maximum Marks: 100

Continuous Comprehensive Evaluation (CCE): 30 Marks University Exam (UE):70 Marks

Internal Assessment : Continuous	Class Test Assignment/Presentation	
Comprehensive Evaluation (CCE)		30
External Assessment :	Section(A): Very Short Questions	
University Exam Section	Section (B): Short Questions	70
Time: 03.00 Hours	Section (C): Long Questions	

Any remarks/ suggestions:

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# **Practical Paper**

Progra	m: Degree	Class:	Year: III	Session: 2023-24		
			Subject: BCA			
1	1 Course Code		S3-BCAC4R			
2	Course Title		MYSQL (Practical)			
3	Course Type (Cor	e Course/	Elective			
	Discipline Specific					
	Elective/Elective/C					
	Elective/Vocational/)					
4	Pre-requisite (if an					
5	Course Learning outcomes (CLO)			ion of this course, the students		
			will be able to:	c concepts of how a database store		
			information.	c concepts of now a database store		
				Of SQL syntax with MySQL.		
			3. Design database for an organization and apply			
				various SQL Queries and constructs.  4. Apply queries to retrieve and manipulate data from		
			one or more tables.			
			5. Learn how to filter data based upon multiple			
			conditions			
6	Credit Value			2		
7	Total Marks	1 1 20	Max. Marks: 100	Min. Passing Marks:35		
		Part B	- Content of the Cour	rse		
		N	IYSQL (Practical)			
Total N	No. of Practical =30 (	each of 2 ho	urs duration (1 Practica	l per week))		
	Practi	cal will be co	nducted based on the th	eory Syllabus		
List of	Practical					
1.	Create multiple Tab	les to design	a database in MYSQL.			
2.	Insert Data into tabl		eries	,		
3.		Update table in MYSQL				
4.	Apply Delete and truncate query on table.					
5.	Alter schema using		C			
6.	1	Display records using different form of select statement.  Apply aggregate functions on tables.				
7.	Implement various					
8.	Import and export of					
9. 10.						
11	11 7					
11.	Sort data in tables	using query				
11. 12. 13.			ons on Tables			

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15. Generate report in MySQL

### Keywords/Tags:

# Part C-Learning Resources

### Text Books, Reference Books, Other resources

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- 3.https://www.w3schools.com/MySQL/default.asp
- 4.https://www.mysqltutorial.org/

## Suggested equivalent online courses:

- 1. https://onlinecourses.nptel.ac.in/noc21 cs04/preview
- 2. https://onlinecourses.swayam2.ac.in/aic20 sp32/preview
- 3. https://in.coursera.org/courses?query=mysql
- 4. https://www.mygreatlearning.com/academy/learn-for-free/courses/my-sql-basics
- 5. https://www.simplilearn.com/official/site

# Part D-Assessment and Evaluation

## Suggested Continuous Evaluation Methods:

Internal Assessment	Marks	External Assessment	Marks	
Class Interaction /Quiz		Viva Voce on Practical		
Attendance	30	Practical Record File	70	
Assignments (Charts/ Model Seminar / Rural Service/ Technology Dissemination/ Report of Excursion/ Lab Visits/ Survey / Industrial visit)		Table work / Experiments		
		Total Marks : 100		

Any remarks/ suggestions:

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