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Department of Artificial Intelligence and Machine Learning

Date: 07.04.2023

To The Principal, Malla Reddy Engineering College (A), Maisammaguda, Secunderabad – 500100.

Sub: Seeking permission to conduct the Value Added Course on "MySQL"- Reg. Sir,

In connection with the training programs being organized to get knowledge on advanced techniques, we are planning to organize a **Value Added Course** on "MySQL" in association with **ViHave innovations Pvt Ltd**. Hence, I requested you to grant permission to organizing the **Value Added Course** from 10.04.2023 to 29.04.2023.

Thank you Sir,

Malla Residy & Tracing College
Naisanames County Pally,
(Post Via Kompally), Sec-bad-500100.



HODAIML



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DEPARTMENT OF Artificial Intelligence and Machine Learning

Date: 07-04-23

CIRCULAR

All the Students of II-II are hereby informed that Value Added Course on "MySQL" from 10.04.2023 to 29.04.2023 is being organized by the Department of AIML .The Resource Person for the course is Mr.K.Rambabu, Trainer in ViHave innovations Pvt Ltd. Students are advised to register names to the program coordinator Mr.K.Saidi Reddy on or before 10-04-23 and utilize this opportunity to enhance the Skills by attending the program.

The detailed schedule of the programme will be displayed in the notice board.

HOD-AIML

Copy to:

- 1) Circulation in Students classroom
- 2) All HOD'S
- 3) Notice Boards
- 4) PA to Principal for filling

Malla Reddy Poling College Maisame (Post Via Kempage)





Malla Reddy Engineering College

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Department of Artificial Intelligence and Machine Learning

Value Added Course

On "MySQL"

Dates: 10.04.2023 to 29.04.2023

Date
10.04.2023-29.04.2023



MALLA REDDY ENGINEERING COLLEGE

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Department of AIML

Value Added Course Enrolled List

MySQL

(10.04.2023 to 29.04.2023)

Sl.No	Roll No	Name
1	21J41A7301	A HEMANTH
2	21J41A7302	A SRAVYA
3	21J41A7303	ADLAPALLY BHARADWAJ
4	21J41A7306	ALLAM ABHIRAM
5	21J41A7307	ALWALA SWETHA
6	21J41A7308	ANVITHA NADIPELLY
7	21J41A7309	BALASANI PREETHAM
8	21J41A7310	BANOTH SRINIVAS
9	21J41A7311	BEGARY SHREEVARDHAN
10	21J41A7312	BETHI SRAVANI
11	21J41A7313	BHEEMANAPALLI REKHA
12	21J41A7314	BOREDDY OBUREDDY
13	21J41A7315	CH SATHVIK REDDY
14	21J41A7316	CHIDURALA. SUSHRUTH

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Department of Artificial Intelligence and Machine Learning

Value Added Course On "MySQL"

Contents

- 1. Introduction
- 2. Restricting and Sorting Data
- 3. Single Row Functions
- 4. Displaying Data From Multiple Tables
- 5. Aggregating Data using Group Functions
- 6. Sub Queries
- 7. Manipulating Data
- 8. Creating and Managing Tables
- 9. Including Constarints
- 10. Views
- 11. Other Database Objects
- 12. Index

13. Set Operators

Coordinator

Malia Red. Incoming College
Maisammagues Dhulapaliy,
Post Via Kempahri, Sec. Lad-500100.

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Note: Selection and projection often considered as horizantal and vertical partinioning.

Syntax: Select *| { [distinct] column| Expression [alias],....} From table

- Select identifies what columns
- From identifies which table
- Always write keywords in uppercase

Selecting all columns:

Select * from employees;

We can also display all columns of alll rows by lisitng column names after the seelct keyword

Ex: Select department_id, department_name, manager_id, location_id from departments;

Selecting specific columns of all rows:

Ex: Select department_id, location_id from departments;

In this case we can specify the column names in the order in which you want them to appear on the output.

<u>Note</u>: We can also select from psuedo columns a psuedo column behaves like a table column but it is not actually stored in the table you cannot insert or delete values in the psuedo column. Some available psuedo columns are CURRVAL, NEXTVAL, LEVEL, ROWID, ROWNUM.

Arithematic Expressions: Create expressions with number and date data by using arithematic operators

Ex: Select last name, 12*salary*commission pct from employees;

Defining column aliases:

A column alias

- Renames column heading
- It is useful for calculations
- Immediately followed by the column name, there can also be optional keyword AS keyword between the column name and alias.
- Enclose alias name in double quotations if it contains a special characters such as # or \$ or is case sensitive.
- Column aliases can be used in both select clause and the order by clause you cannot use column aliases int eh where clause.

Ex: Select last_name AS name, commossion pct AS comm from employees;

Ex: Select last_name "name", salary*12 "Annual Salary" from employees;

Using concatenation operator:

- concatenates character string or columns to other columns
- It is represented by two vertical bars ||
- Creates resultant column that is a character expression.

Ex: Select last name || job id AS "Employees" from employees;

Literal characters strings:

A literal is a character, a number or a date included in the select list.

Date and character literal values must be enclosed within single quotation marks.

Each character string is output once for each row returned

Restricting and sorting data

Limiting the rows selected:

We restrict the rows returned by using the WHERE clause.

Select *|[distinct] column/expression [alias],-----}

From table

[where condition [s]];

where restricts the query to rows that meets the condition

Condition is composed of column names , expressions constants , and a comparison operator.

Where consists of three elements.

- 1. column name
- 2. comparison condition
- 3. column name, constant or list of values

Ex: select employee-id, last-name, jod-id, department-id from employees where Department-id = 90;

Character strings and date values are enclosed in single quotation marks.

Like	Match a character pattern
Is null	Is a null value

<u>Between</u>: select last_name, salary from employees where salary between 2500 and 3500; while specifying between we must specify the lower limit first.

Between and AND are actually translated by the oracle server to a pair of and conditions (a>=lower limit) AND (a<= higher limit).

Using between and AND has no performance benefits, and it is used logical simplicity.

<u>IN</u>: It is used to test the values in a list. In condition is also known as member ship condition

 $\underline{\mathbf{Ex}}$: Select employee-id, last-name, salary, manager-id from employees where manager-id In(100,101,201)

Ex: select employee-id ,manager-id ,department-id from employees where last-name IN ('hartstein','vargas').

<u>Note</u>: If characters or dates are used in a list they must be enclosed in a single quotation marks

In is actually translated by a oracle server to a set of OR conditions a=value1 or a=value2 or a=value3.

Using IN has no performance benefits, and is used for logical simplicity.

LIKE: it is used for performing wildcard searches of valid search string values.

Search conditions can contain either literal characters or numbers.



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Department of Artificial Intelligence and Machine Learning

Value Added Course

On "MySQL"

Dates: 10.04.2023 to 29.04.2023

Requirements: MySQL Workbench and Community Server for Mac or Windows/PC

Course Contents

- Introduction to Installing MySQL and MySQL Workbench for Beginners
- Why Learn SQL From Scratch? The Ultimate MySQL Bootcamp is Worth It!
- MySQL Installation Overview
- Mac Download Community Server
- Mac Download MySQL Workbench
- PC Download Community Server + Workbench
- Connecting Workbench to the Server
- MySQL Workbench Interface
- Creating the Maven Movies Database
- Introduction to Databases and SQL Querying
- Getting to Know the Database
- The "Big 6" Statements and Clauses of SQL Queries
- The SELECT Statement Your SQL Querying Starts Here
- The FROM Clause-Tell the Server Which Table Your SQL Query Will Pull Data
- From
- SELECT * FROM
- The USE Statement
- Selecting Specific Columns
- ASSIGNMENT: SELECT & FROM
- SOLUTION: SELECT & FROM
- SELECT DISTINCT
- ASSIGNMENT: SELECT DISTINCT
- SOLUTION: SELECT DISTINCT
- The WHERE Clause
- Common WHERE Operators, SOLUTION: The WHERE Clause
- Combining WHERE & AND
- ASSIGNMENT: WHERE & AND
- SOLUTION: WHERE & AND
- Combining WHERE & OR, ASSIGNMENT: WHERE & OR
- SOLUTION: WHERE & OR
- Combining WHERE & IN
- LIKE Wildcard Examples
- ASSIGNMENT: The LIKE Operator
- SOLUTION: The LIKE Operator

- ASSIGNMENT: The LIKE Operator
- SOLUTION: The LIKE Operator
- The GROUP BY Clause, GROUP BY Example
- PRO TIP: Using Comments & Aliases
- ASSIGNMENT: GROUP BY, Multiple Dimension GROUP BY Clauses
- Grouping with Aggregate Functions
- ASSIGNMENT: Aggregate Functions
- SOLUTION: Aggregate Functions
- The HAVING Clause, HAVING Example
- ASSIGNMENT: The HAVING Clause
- SOLUTION: The HAVING Clause
- The ORDER BY Clause, ORDER BY Example
- ASSIGNMENT: The ORDER BY Clause
- SOLUTION: The ORDER BY Clause
- The CASE Statement, CASE Example
- Common CASE Operators
- ASSIGNMENT: The CASE Statement
- SOLUTION: The CASE Statement
- PRO TIP: "Pivoting" with COUNT & CASE
- COUNT & CASE Demo
- ASSIGNMENT: COUNT & CASE, SOLUTION: COUNT & CASE
- Normalization & Cardinality
- Relationship Diagrams
- Multi-Table Querying
- Reviewing the Maven Movies Database
- Common JOIN Types
- INNER JOIN
- INNER JOIN Example, ASSIGNMENT: INNER JOIN SOLUTION: INNER JOIN,
- LEFT JOIN, LEFT JOIN Example, ASSIGNMENT: LEFT JOIN
- SOLUTION: LEFT JOIN
- RIGHT JOIN
- FULL OUTER JOIN
- PRO TIP: "Bridging" Unrelated Tables
- ASSIGNMENT: "Bridging" Tables
- SOLUTION: "Bridging" Tables
- Multi-Condition Joins
- ASSIGNMENT: Multi-Condition Joins
- SOLUTION: Multi-Condition Joins
- The UNION Operator
- UNION Example
- ASSIGNMENT: The UNION Operator
- SOLUTION: The UNION Operator

Coordinator

Principal
Maila Reddy East and ng College
Maissamo La, Distopally,
(Post Via Kemasily), Septied-500100.



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Malla Reddy Engineering College Department of AIML Value Added Course on "MySQL" Attendance Sheet

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Malla Reddy Engineering College
Department of AIML
Value Added Course on "MySQL"
Attendance Sheet

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(An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad). Accredited 3rd time by NAAC with 'A++' Grade, Maisammaguda, Medchal - Malkajgiri District, Secunderabad, Telangana State - 500100, www.mrec.ac.in

Department of Artificial Intelligence and Machine Learning

Value Added Course On "MySQL"

Date: 29/04/2023

Examination Question Paper

- 1) What is the full form of SQL? a. Structured Query List b. Structure Query Language Sample Query Language c. d. None of these. 2) Which of the following is not a valid SQL type? a. FLOAT b. **NUMERIC DECIMAL** c. d. **CHARACTER** 3) Which of the following is not a DDL command? a. TRUNCATE b. **ALTER CREATE** c. **UPDATE**
- 4) Which of the following are TCL commands?
- COMMIT and ROLLBACK a.
- b. UPDATE and TRUNCATE
- c. SELECT and INSERT
- d. **GRANT and REVOKE**
- 5) Which statement is used to delete all rows in a table without having the action logged? How to find Nth Highest Salary in SQL
- a. DELETE
- Ъ. **REMOVE**
- c. DROP
- d. TRUNCATE
- 6) SQL Views are also known as
- Simple tables
- b. Virtual tables
- Complex tables c.
- d. **Actual Tables**
- 7) How many Primary keys can have in a table?
- Only 1
- b. Only 2
- Depends on no of Columns c.

d.	Depends on DBA
8)	Which datatype can store unstructured data in a column?
a.	CHAR
b.	RAW
c.	NUMERIC
d.	VARCHAR
9) \	Which of the following is not Constraint in SQL?
a.	Primary Key
b.	Not Null
c.	Check
d.	Union
10)	Which of the following is not a valid aggregate function?
a.	COUNT
b.	COMPUTE
c.	SUM
d.	MAX
11)	Which data manipulation command is used to combines the records from one or more tables?
a.	SELECT
b.	PROJECT
c.	JOIN
d.	PRODUCT
12)	Which operator is used to compare a value to a specified list of values?
a.	ANY
b.	BETWEEN
C.	ALL
d.	IN .
	What operator tests column for absence of data
a.	NOT Operator
b.	Exists Operator
C.	IS NULL Operator
d.	None of the above
	In which of the following cases a DML statement is not executed?
a. b.	When existing rows are modified. When a table is deleted.
c.	When some rows are deleted.
d.	All of the above
defa	If we have not specified ASC or DESC after a SQL ORDER BY clause, the following is used by
a.	DESC
b.	ASC
c.	There is no default value
d.	None of the mentioned
	Which of the following statement is true?
a.	TRUNCATE free the table space while DELETE does not.
b.	Both TRUNCATE and DELETE statements free the table's space.
c.	Both TRUNCATE and DELETE statement does not free the table's space.
d.	DELETE free the table space while TRUNCATE does not.
17)	What is returned by INSTR ('JAVAT POINT', 'P')?
a.	6
b.	7
c.	POINT
d.	JAVAT
18) /	A command that lets you change one or more field in a table is:

a.	INSERT
b.	MODIFY
c.	LOOK-UP
d.	All of the above
19	Which of the following is also called an INNER JOIN?
a.	SELF JOIN
Ъ.	EQUI JOIN
c.	NON-EQUI JOIN
d.	None of the above
	Which of the following is true about the TLAXIDAG.
a.	Which of the following is true about the HAVING clause?
b.	Similar to the WHERE clause but is used for columns rather than groups.
c.	ominar to writing clause but is iised for rowe rether then colored
d.	Similar to WHERE clause but is used for groups rather than rows.
21)	rous exactly like a where clause.
a.	clause creates temporary relation for the query on which it is defined. WITH
b.	FROM
c.	WHERE
d.	SELECT
	The SQL statement:
22)	L. SELECT ROUND (65.726 1) EDOM DUAL
a.	1. SELECT ROUND (65.726, -1) FROM DUAL; prints: is illegal
b.	
. c.	garbage 726
d.	720
	Which of the following is true about the SQL AS clause?
23)	Which of the following is true about the SOL AS clause?
	The AC along the doctor the BQL AS clause?
a.	The AS clause in SQL is used to change the column name in the cutaut
deri	ed column.
deri	ed column. The SQL is used to change the column name in the output or assign a name to a The SQL AS clause can only be used with the IQIN clause.
deri	The AS clause in SQL is used to change the column name in the output or assign a name to a ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition
deri	ed column.
deride deride de d	ed column. The SQL is used to change the column name in the output or assign a name to a many square to a column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned
derive de	ed column. The SQL is used to change the column name in the output or assign a name to a many square to a column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned
deri b. c. d.	ed column. The SQL is used to change the column name in the output or assign a name to a ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned
derive b. c. d. 24) _ a. b.	ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned command makes the updates performed by the transaction permanent in the database? ROLLBACK COMMIT
deri b. c. d. 24) _ a. b. c.	ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned command makes the updates performed by the transaction permanent in the database? ROLLBACK COMMIT TRUNCATE
derive b. c. d. 24) _ a. b.	ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned command makes the updates performed by the transaction permanent in the database? ROLLBACK COMMIT
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a. derir b. c. d. 24) _ a. b. c. d. 25) H	The AS clause in SQL is used to change the column name in the output or assign a name to a ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned
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a. derir b. c. d. 24) _ a. b. c. d. 25) H a. b. c.	The AS clause in SQL is used to change the column name in the output or assign a name to a ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned
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derir b. c. d. 24) _ a. b. c. d. 25) H a. b. c. d. 26) W a.	The AS clause in SQL is used to change the column name in the output or assign a name to a ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned command makes the updates performed by the transaction permanent in the database? ROLLBACK COMMIT TRUNCATE DELETE ow can you change "Thomas" into "Michel" in the "LastName" column in the Users table? UPDATE User SET LastName = 'Thomas' INTO LastName = 'Michel' MODIFY Users SET LastName = 'Michel' WHERE LastName = 'Thomas' MODIFY Users SET LastName = 'Thomas' INTO LastName = 'Michel' UPDATE Users SET LastName = 'Michel' WHERE LastName = 'Thomas' hich command is used to change the definition of a table in SQL? CREATE
a. derir b. c. d. 24) _ a. b. c. d. 25) H a. b. c. d. 26) W a. b.	The AS clause in SQL is used to change the column name in the output or assign a name to a ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned
a. derir b. c. d. 24) _ a. b. c. d. 25) H a. b. c. d. 26) W a. b. c. c.	The AS clause in SQL is used to change the column name in the output or assign a name to a ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned
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a. derir b. c. d. 24) _ a. b. c. d. 25) H a. b. c. d. 26) W a. b. c. d.	The AS clause in SQL is used to change the column name in the output or assign a name to a ed column. The SQL AS clause can only be used with the JOIN clause. The AS clause in SQL is used to defines a search condition. All of the mentioned

	c.	EQUI JOIN
	d.	All of the above
		A CASE SQL statement is?
	a.	A way to establish a loop in SQL.
	b.	A way to establish an IF-THEN-ELSE in SOL
	c.	A way to establish a data definition in SOL
	d.	All of the above.
	29)	Which statement is two research.
	a.	Which statement is true regarding routines and triggers? Both run automatically.
	b.	Both are stored in the database.
	c.	Both consist of procedural code.
	d.	Both have to be called to operate.
	, 30) V	Which statement is true regarding procedures?
	a.	They include procedural and SOL statements
	b.	They work similarly to the functions.
	C.	It does not need unique names.
	d.	It cannot be created with SQL statements.
	31) V	Which of the following is the basic approaches for joining tables?
	a.	Union JOIN
	b.	Natural JOIN
	c.	Subqueries
	d.	All of the above
	32) W	The vimproves the greed of data with a larged present in a table?
	a.	miles improves the speed of data retrieval operations on a table
	b.	indexes are special lookup tables that will be used by the database goods
	c.	indexes are synonyms of a column in a table
	d.	All of the above
	33) G	roup of operations that form a single logical unit of work is known as
	a.	View
	b.	Network
	c.	Unit
	d.	Transaction
	24) Ch	and last. Use and
		ared locks are applied while performing
	a. b.	Read operations
	о. С.	Write operations A & B both
	d.	None of the above
	u ,	Notic of the above
	35) Sec	quence can generate
	a. •	Numeric value
	b.	Alphanumeric value
	C.	A & B both
•	d.	None of the above
	36) A s	equence in SQL can generate a maximum number:
á	a.	39 digits
ł	b.	38 digits

- 40 digits
- d. 37 digits
- 37) Which of the following is the correct order of a SQL statement?
- SELECT, GROUP BY, WHERE, HAVING a.
- SELECT, WHERE, GROUP BY, HAVING b.
- SELECT, HAVING, WHERE, GROUP BY c.
- SELECT, WHERE, HAVING, GROUP BY d.
- 38) What is the difference between a PRIMARY KEY and a UNIQUE KEY?
- Primary key can store null value, whereas a unique key cannot store null value.
- We can have only one primary key in a table while we can have multiple unique keys b.
- Primary key cannot be a date variable whereas unique key can be c.
- d. None of these
- 39) Which of the following are the synonyms for Column and ROW of a table?
 - 1. Row = [Tuple, Record]
 - 2. Column = [Field, Attribute]
 - 3. Row = [Tuple, Attribute]
 - 4. Columns = [Field, Record]
- a. 1 and 2
- 3 and 4 b.
- c. Only 1
- d. Only 2
- 40) Which operator is used to compare the NULL values in SQL?
- Equal
- IN b.
- IS c.
- d. None of Above

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Value Added Course

On **MySQL**

Student Feedback

Name of the Student and Roll No (Optional)	
Year and Semester	2-2
Academic year	2022-23
Name of the Value added course offered	MySQL
Name of the Resource Person	Mr.K.Rambabu
Course Duration	16 Day's

STUDENT FEEDBACK

Dear Student,

You are required to give your feedback on the following aspects. Please tick in the respective column.

Please use the following criteria for giving feedback:

S.No.	Criteria	Rating					
		Excellent	Very Good	Good	Fair	Satisfactory	
1	Course content	√	3334				
2	Skill development		√				
3	Motivation	√					
4	Regular and punctuality of teacher	√					
5	Coverage of content			V			
6	Interaction		✓				
7	Individual attention	√					



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Value Added Course On MySQL **Student Feedback**

Name of the Student and Roll No (Optional)	
Year and Semester	2-2
Academic year	2022-23
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			Good				
1	Course content	✓					
2	Skill development		√				
3	Motivation	✓					
4	Regular and punctuality of	√				24	
	teacher						
5	Coverage of content			✓			
6	Interaction		√				
7	Individual attention	√					



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Value Added Course On **MySQL Student Feedback**

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1	Course content	✓					
2	Skill development		√				
3	Motivation	✓					
4	Regular and punctuality of teacher	✓	=		20		
5	Coverage of content			√			
6	Interaction		✓				
7	Individual attention	✓°					



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Value Added Course On MySQL Student Feedback

Name of the Student and Roll No (Optional)	
Year and Semester	2-2
Academic year	2022-23
Name of the Value added course offered	MySQL
Name of the Resource Person	Mr.K.Rambabu
Course Duration	16 Day's

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		Excellent	Very Good	Good	Fair	Satisfactory	
1	Course content	√					
2	Skill development		√				
3	Motivation	✓		1		=	
4	Regular and punctuality of teacher	✓					
5	Coverage of content			√			
6	Interaction		√				
7	Individual attention	✓					



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Department of Artificial Intelligence and Machine Learning

Value Added Course On **MySQL Student Feedback**

Name of the Student and Roll No (Optional)	
Year and Semester	2-2
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Please use the following criteria for giving feedback:

S.No.	Criteria	Rating					
		Excellent	Very	Good	Fair	Satisfactory	
			Good				
1	Course content	✓					
2	Skill development		√				
3	Motivation	√					
4	Regular and punctuality of	√ :a		7.			
	teacher						
5	Coverage of content			✓			
6	Interaction		√				
7	Individual attention	✓	ie.				



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Department Of Artificial Intelligence and Machine Learning

Date: 29.04.2023

Report of Value Added Course on MySQL

A sixteen days program on MySQL for Data Analytics was organized by the department of AIML for II years. The resource person of the program is Mr.K.Rambabu. The course involves the introduction of MYSQL and the necessary commands to handle the database management system effectively. The event was coordinated by Mrs.M.Sandhya Vani, Asst.Professor, IT Department from 10.04.2023 to 29.04.2023 and 65 students.

After the training programme, the students learned the following,

- MYSQL Installation and Querying.
- Efficient way of using the database using MYSQL.
- Various concepts like constraints, operators, joins.
- Acquired practical knowledge of the tool.

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Certificate

organized by the Department of AIML, MREC(A). on "MySQL" from 10.04.2023 to 29.04.2023, in association will Roll. No 21/141A7350 has successfully completed Value Added Court This is to certify that Mr./Ms. PAIDIPALLI JIGEESHA bearing

COORDINATOR

IOD-FINE

PRINCIPAL



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Gertificate

organized by the Department of AIML, MREC(A). on "MySQL" from 10.04.2023 to 29.04.2023, in association wil Roll. No 21/141A7331 has successfully completed Value Added Cour This is to certify that Mr./Ms. KARNE MAHESH bearing

COORDINATOR

