



**MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)**  
(An UGC Autonomous Institution, Affiliated to JNTUH, Hyderabad Accredited 2<sup>nd</sup> time by NAAC  
with 'A' Grade & NBA and Recipient of World Bank Assistance under TEQIP-II S.C. 1.1)  
Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad,  
Telangana State – 500100  
www.mrec.ac.in

## Department of Computer Science and Engineering

### CIRCULAR

Date: 07/08/2016

All the students are hereby informed that Value Added Course on “SQL ” is being organized by the **Computer Science and Engineering** department on dated **14<sup>th</sup> Aug 2016 to 21<sup>ST</sup> Sept 2016**. The resource person for the course is **Mr. Shyam Sunder, IBM**

Students are advised to register their names to the programme coordinator **“Mr. Y. Rokesh Kumar Assistant Professor, CSE”**, on or before 11/08/2016 and utilize this opportunity to enhance their skills by attending the programme.

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

  
Head of the Department

Copy to:

- 1) Circulation In Students classroom
- 2) All HOD's
- 3) Notice Boards
- 4) PA to principal for filing.

  
Principal  
Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500100



## About the Institution

**Malla Reddy Engineering College (Autonomous)** is one of the reputed engineering colleges in Hyderabad, Telangana. **MREC (A)** is part of Malla Reddy Group of Institutions (MRGI), founded by Sri. Ch. Malla Reddy, currently Hon'ble Minister, Labor and Employment, Factories, Women and Child Welfare and Skill Development, Govt. of Telangana State. The college is situated in a serene, lush green environment in Maisammaguda, Gundlapochampally, Medchal(M), Medchal-Malkajgiri District Telangana- 500100.

The college was established in 2002 and is an autonomous institution approved by UGC and affiliated to JNTUH. The college is re-accredited by NAAC with 'A' Grade (II Cycle) and was conferred autonomous status by JNTUH in 2011 and by UGC in 2014 for a period of 6 years. Our eligible UG and PG programs received NBA accreditation and some of them received reaccreditation too. The college caters to wide ranging aspirations and goals of student communities by offering new courses in UG courses provides PG courses and MBA along with programs in various streams of Engineering & Technology and Management. It boasts of world-class infrastructure and well-equipped laboratories in all departments and is skillfully and smartly guided by **Dr. S. Sudhakara Reddy, Mr. Principal, MREC (A)** who have a rich teaching and industrial experience.



## Advisory Committee

**Chief Patrons:** Sri. Ch. Malla Reddy  
Founder Chairman  
Malla Reddy Group of Institutions

**Patrons:** Sri.Ch. Mahender Reddy  
Secretary, MRGI  
Dr.Ch.Bhadra Reddy  
President, MRGI

**Co-Patrons:** Dr.S. Sudhakara Reddy  
Principal, MREC (A)

**Convener:** Dr. Md. Masthan  
HOD CSE

**Coordinator:** Mr. Yarav Rokesh Kumar  
Assistant Professor, CSE

**Resource Person:** Dr. Shyam Sundar,  
IBM Hyderabad

## Organizing Committee:

**Dr. R P Ramkumar**, Professor, CSE

**Dr. S. Dhanalakshmi**, Professor, CSE

**Mr. Sanjeeva Polepaka**, Associate Professor, CSE

**Mr. P.V. Ramana Murthy**, Assistant Professor, CSE

**Ms. S. Sandhya Ran**, Assistant Professor, CSE

**Mr. Md. Inayathulla**, Assistant Professor, CSE

**Mr. A. Lakshman**, Assistant Professor, CSE

**Mr. Yarava Rokesh Kumar**, Assistant Professor, CSE

**Mrs. G. Vamshi Krishna**, Assistant Professor, CSE

*Ramkumar*  
Principal  
Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500100



*A One-Month Skill development Course*

*(Value added Course)*

*On*

**"SQL"**

**(14<sup>th</sup> August 2016 to 21<sup>st</sup> September 2016)**

**(4:30 p.m. to 5:30 p.m.)**



*Organized by*

**Department of**

**Computer Science and Engineering**

**MALLA REDDY ENGINEERING COLLEGE**

(AUTONOMOUS) MAIN CAMPUS

An UGC Autonomous Institution, Approved by

AICTE & Affiliated to JNTUH-Hyderabad

Reaccredited by NAAC with 'A' Grade (II Cycle)

Maisammaguda(H), Gundlapochampally (V),

Medchal (M), Medchal - Malkajgiri District

Telangana - 500100, India.

## Registration Form

Name of the Participant :-----  
-----

Branch & Year :-----

Name of Institution:-----  
-----

Address for Communication:-----  
-----  
-----

Mobile Number:-----

E-Mail ID:-----

### DECLARATION:

The information furnished above is true to the best of my Knowledge.

Place:

Date:

Signature of Applicant



*Raavi*  
Principal  
Malla Reddy Engineering College  
Meesammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500100

## About the Department

The Department of CSE was started in the year 2005 with a vision of imparting high-quality education to suite the global standards in Computer science and Engineering. The department has got highly qualified & committed faculty members supported by dedicated technical staff.

The department has its own library and sophisticated laboratories not only to suite curriculum requirements but also to serve research needs such as Computer Networks, Data Mining, Software Engineering, Image processing & Cloud Computing. Workshops, software simulation etc.

The department formed CSI and ISTE student branch for the benefit of students and faculty by conducting technical Conferences, workshops, FDPs and Guest lectures.

## Overview of the Programme

The SQL course IS cornerstone of all relational database operations. The ability to write the SQL language is essential for those who develop database applications. This course provides a solid foundation of the SQL programming language that enables students to build, query and manipulate databases. Working in Oracle database throughout this course, students compare the ANSI/ISO standard with the SQL implementation of this database product.

The SQL certification validates your skills and knowledge in Tables creation, manipulation, Normalization of data , connectivity of data bases.

## Objectives of the Programme

During the SQL course, administered by the undersigned instructor, the student washable to proficiently: Students will learn how to:

- Understand the basics of Relational Databases
- Write SQL code based on ANSI/ISO standards to build and maintain database structures
- Update database content with SQL and transaction handling
- Retrieve data from single or multiple tables
- Process data with row and aggregate functions

## Topics to be covered

- Creating and modifying tables, constraints and indexes
- Modifying table contents
- Retrieving data from tables
- Joining multiple tables
- Applying row and aggregate functions
- Embedding subqueries within statements

## Certificate

After successful completion of the course the certificates shall be issued to the participants.

## Outcome of the program,

On completion of this course, participants will be able to equip with all the skills required to match their expectation s.



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Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad, Telangana State  
500100

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### SQL SYLLABUS

1. Introduction to SQL. What is SQL? What is ANSI SQL? Define and understand the Basics of the RDBMS: relational databases, database normalization (briefly). SQL sessions. Types of SQL commands: DDL, DML, DQL, DCL...
2. Using DDL Statements to Create and Manage Tables. What is Data? What are database objects? What is a schema? Create a simple table: naming a table or other object, The SQL statement CREATE TABLE. Review the table structure. List the data types that are available for columns: character, numeric, date, large objects
3. (LOBs). Explain how constraints are created at the time of table creation: Creating CONSTRAINTS in the CREATE TABLE statement, The types of CONSTRAINTS. ALTER TABLE and DROP TABLE commands. Creating a table from an existing table. Manipulating Data Using DML. Managing database transactions.
4. Overview of data manipulation. Insert rows into a table: default column list, enumerated column list. Update rows in a table. Delete rows from a table. Control transactions: COMMIT, ROLLBACK, SAVEPOINT. Inserting data from another table. Retrieving Data Using the SQL Select Statement. Restricting and Sorting Data.
5. Execute a basic SELECT statement. The SELECT statement—an example. List the capabilities of SQL SELECT statements. Limit the rows that are retrieved by a query: The WHERE clause, boolean logic, additional WHERE clause features (IN, BETWEEN, IS NULL/IS NOT NULL). Sort the rows that are
6. retrieved by a query: reference by name, reference by position. Using Single-Row Functions to Customize Output. Describe various types of functions that are available in SQL: character functions, number functions, date functions, conversion functions, other functions. Use character, number, and date functions in SELECT statements. Nesting functions. Describe the use of conversion
7. functions: conversion functions, automatic datatype conversions. Reporting Aggregated Data. Using the Group Functions. Identify the available group functions. Describe the use of group functions: COUNT, SUM, MIN/MAX, AVG. Group data by using the GROUP BY clause: multiple columns,



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ORDER BY revisited, nesting functions. Include or exclude grouped rows by using the HAVING clause. Displaying Data from Multiple Tables.

8. Write SELECT statements to access data from more than one. Table using equijoins and non-equijoins. Using table aliases. Types of joins: inner joins, outer joins, NATURAL joins. Multitable joins. Join a table to itself by using a self-join. Retrieving Data Using Subqueries. Using the Set Operators. Define subqueries. Describe the types of problems that subqueries can solve. List the types of subqueries: single-row subqueries, multiple-row subqueries, multiple-column subquery, scalar subqueries. Solve problems with correlated subqueries. Describe set operators. Use a set operator to combine multiple queries into a single query: UNION, UNION ALL, INTERSECT, EXCEPT (MINUS). Control the order of rows returned. Creating Other Schema Objects. Database Tuning. Controlling User Access. Utilizing views. Create and use simple and complex views. The purpose of WITH CHECK OPTION. Performance impact of using nested views. Create and maintain indexes: implicit
9. index creation, single column, composite, unique, dropping. When should indexes be considered/avoided? Create private and public synonyms. Database tuning vs. SQL statement tuning. Formatting SQL statements: the format of SQL statements for readability, the order of tables in the FROM clause the placement of the most
10. restrictive conditions in the WHERE clause, the placement of join conditions in the WHERE clause. Differentiate system privileges from object privileges. Controlling user access: GRANT/REVOKE command. Controlling privileges through roles. Distinguish between privileges and roles.
11. Building a Multitable Relational Database. Database models: flat, hierarchical, network, relational. A relational database design. Business process modeling. Types of database design: conceptual schema, logical schema, physical schema. Relationships: One-to-One, One-to-Many, Many-to-Many. Normalization: before the first normal form, the first normal form, the second normal form, the third normal form, higher normal forms. Integrity rules: general integrity rules, database-specific integrity rules. Breaking the rules: when to denormalize



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Maisammaguda (H), Medchal-Malkajgiri District,  
Telangana State – 500100

**Department: CSE**

**Course Name: SQL**

**Date:14/08/2016-21/09/2016**

**Value Added Courses  
List of Students enrolled and completed**

Sl.No	Roll No	Name of the students	Year/Semester
1	14J41A0549	Sardar Harjendar Singh	III/1
2	14J41A0550	Sardar Sohan Singh Chahel	III/1
3	14J41A0551	Siddharth Kothamasu	III/1
4	14J41A0552	Srungavarapu Spanadana Chowdary	III/1
5	14J41A0553	Talasila Sujith	III/1
6	14J41A0554	Thimmareddy Rohith Reddy	III/1
7	14J41A0555	Tummuru Tejashwini	III/1
8	14J41A0556	T V Subha Vaishanai	III/1
9	14J41A0557	Uddagiri Sai Krishna	III/1
10	14J41A0558	V Sai Sravan Akash	III/1
11	14J41A0559	Varikollu Sainadh	III/1
12	14J41A0560	Vetcha Naimisha	III/1
13	14J41A0561	M Jaya Surya Raj	III/1
14	14J41A0562	S Sharath	III/1
15	14J41A0561	A Monish	III/1
16	14J41A0562	A Bhavyasree	III/1
17	14J41A0563	A Khashyap	III/1
18	14J41A0564	A Madhusudan Reddy	III/1
19	14J41A0565	G Gopal Prasad	III/1
20	14J41A0566	Aarthi Reddy P	III/1
21	14J41A0567	Adem Reetu	III/1
22	14J41A0568	Adithya Raj Alladi	III/1
23	14J41A0569	Aendala Sunil Kumar	III/1
24	14J41A0570	Amara Chinta Bhanu Prakash	III/1
25	14J41A0571	Anchala Sesha Sai Sneha	III/1
26	14J41A0572	B Sri Krishna	III/1
27	14J41A0573	Balasankula Hardhik	III/1
28	14J41A0574	B.Vaishnavi Yadav	III/1
29	14J41A0575	Bhargav Sashank Goparaju	III/1
30	14J41A0576	D Srikanth Reddy	III/1
31	14J41A0577	Dasari Tejaswini	III/1



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32	14J41A0578	Davuluri Raja Sekhar	III/1
33	14J41A0579	Dharamsoti Mohan	III/1
34	14J41A0580	Donthineni Srujan	III/1
35	14J41A0581	Empaty Akhila	III/1
36	14J41A0582	G Padma Sirisha	III/1
37	14J41A0583	Gadda Vijaybabu	III/1
38	14J41A0584	Gangarajula Suraj	III/1
39	14J41A0585	Gudipally Reema	III/1
40	14J41A0586	Guggilla Neelima	III/1
41	14J41A0587	K Bharath Kumar Reddy	III/1
42	14J41A0588	Katipalli Naresh Babu	III/1
43	14J41A0589	Kola Jahnavi	III/1
44	14J41A0590	Koneru Pujitha	III/1
45	14J41A0591	M Guru Teja	III/1
46	14J41A0592	M Haripriya	III/1
47	14J41A0593	M Rashmitha Reddy	III/1
48	13J41A05F7	MORTHA SUREDRA PAVAN	III/1
49	13J41A05F8	NAGULAPALLI ABHISHEK RAJ	III/1



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### VAC-SQL- Summary

18.09.2016

The objective of conducting Value Added Course SQL focuses on building up your SQL database management skills so that one can easily store and retrieve data and become the in-house expert on complex queries. You'll learn from real examples that lead to real results.

The course is conducted from 14<sup>th</sup> Aug 16 to 18<sup>th</sup> Sept 2016 as after class hours in order not to disturb the regular class work and also to impart extra knowledge to the students on subject other than in curriculum.

The speaker has got extensive knowledge in concepts and usage of SQL in the corporate. He has made the classes very interesting and lively by delivering real time scenarios. Also, the practical exposure has given the students more scope in understanding SQL and also helped them to know its usage in the industry. The speaker also explained how the software industry does not survive without using database.

Some of the Important topics covered are:

1. Creation and Modification of tables using DDL and DML
2. Usage of different Constraints
3. Implementation of Normalisation
4. Writing basic SQL queries and group by clause
5. Nested Queries
6. Writing Procedures and Triggers
7. Introduction to PL/SQL

The students are also given hands on exposure to make the sessions lively and interactive. The students shown lot of interest in learning this course as it helps them in getting placements.

The coordinator has been very helpful to the students for smooth conduction of the course and arranged the things without any problems.

The attendance has been very encouraging through out the course and certificates are issued to the eligible students. Students requested the HOD to conduct such courses regularly.



*Ramiah*  
Principal  
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Maisammaguda, Dhulapally,  
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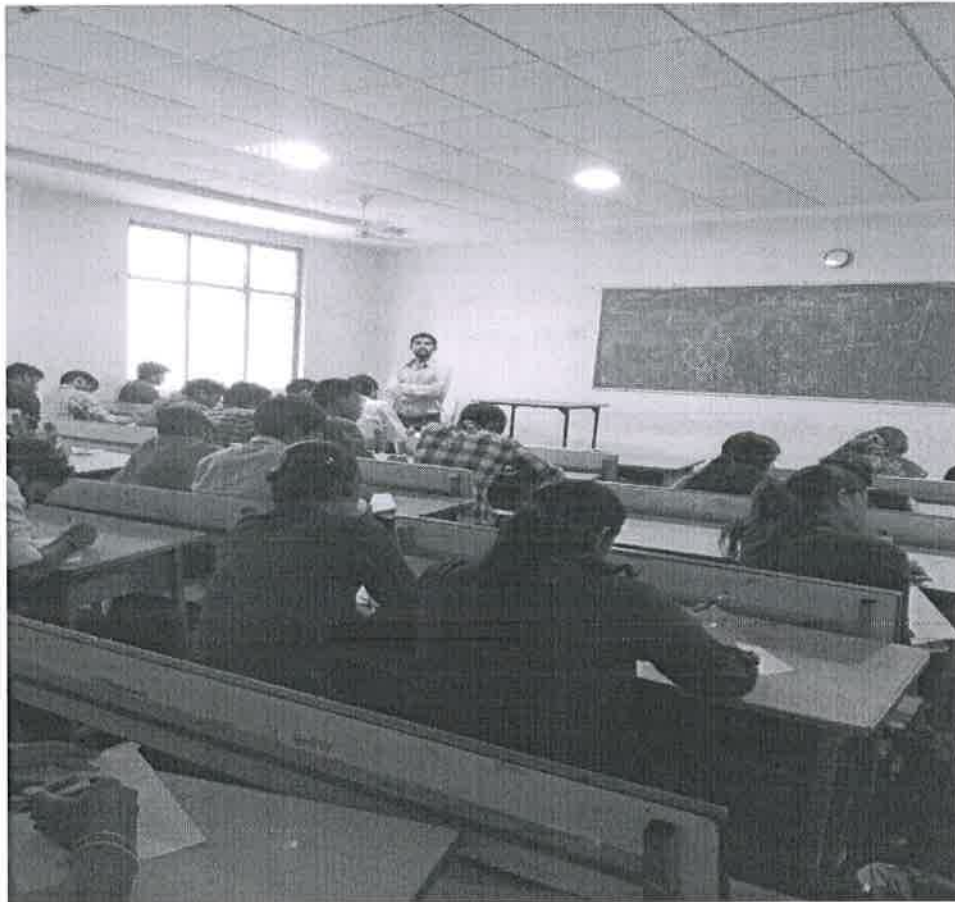
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Maisammaguda (H), Medchal-Malkajgiri District, Secunderabad, Telangana State

500100

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VAC SQL



*Ravish*

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(Autonomous)

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. Talasila Sujith bearing Roll No. 14J41A0553 has successfully completed Certificate / Value Added Course / Workshop in SQL conducted by the Department of Computer Science and Engineering from 14th August 2016 to 21st September 2016.

*Y. Rakesh Kumar*  
COORDINATOR



*Ravind*  
Principal  
HOD  
Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500100

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. G Gopal Prasad bearing Roll No. 14J41A0565 has successfully completed Certificate / Value Added Course / Workshop in SQL conducted by the Department of Computer Science and Engineering from 14th August 2016 to 21st September 2016.

*X. Rakesh Kumar*  
COORDINATOR



*Ravi*  
Principal  
Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500100

*[Signature]*  
HOD

*[Signature]*  
PRINCIPAL



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. Dasari Tejaswini bearing Roll No. 14J41A0577 has successfully completed Certificate / Value Added Course / Workshop in SQL conducted by the Department of Computer Science and Engineering from 14th August 2016 to 21st September 2016.

*X. Rakesh Kumar*  
COORDINATOR



*Ravi*  
Principal  
Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
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*[Signature]*  
HOD

*[Signature]*  
PRINCIPAL





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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms. G Padma Sirisha bearing Roll No. 14J41A0582 has successfully completed Certificate / Value Added Course / Workshop in SQL conducted by the Department of Computer Science and Engineering from 14th August 2016 to 21st September 2016.

*Y. Rakesh Kumar*  
COORDINATOR



*Ravi*  
Principal  
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Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500100

*[Signature]*  
HOD

*[Signature]*  
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms Kola Jahnvi bearing Roll No. 14J41A0589 has successfully completed Certificate / Value Added Course / Workshop in SQL conducted by the Department of Computer Science and Engineering from 14th August 2016 to 21st September 2016.

*Y. Rakesh Kumar*  
COORDINATOR



*Raunak*  
Principal  
Malla Reddy Engineering College  
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(Post Via Kompally), Sec'bad-500100  
HOD

*Jay*  
PRINCIPAL