

Rukmini Devi Institute of Advanced Studies

Madhuban Chowk, Rohini, Delhi-110085

(Approved By AICTE & Affiliated With GGSIP University)

DOSSIER

On

Guest Lecture

On

“Oracle Database Technology”

On

February 12, 2015



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Ms. Mugdha Sharma

Ms. Amandeep Kaur
Chairperson, Literary Club

Prof. Col. (Retd.) Mahander Singh
Director General, RDIAS

Duty Chart for Guest Lecture on “Oracle Database Technology”

Responsibilities	Faculty Name	Signature
Welcome & Escorting of Guest	Ms Radhika Soni Ms Jyoti Arora	
Lecture Theatre Booking	Ms. Jyoti Arora	
Arrangement of Tea, Snacks and Lunch	Ms. Radhika Soni Ms. Jyoti Arora	
Discipline	Ms. Jasmeen Kaur Ms. Akanksha Bhardwaj Ms. Rakhee Chibber Ms. Monika Bansal Ms. Mugdha Sharma Mr. Imran khan Dr. Manoj Kumar Ms. Swati Oberoi Mr. Gaurav Jindal Ms. Neetu Goel Ms. Simmi chawla Mr. Somendra Kumar Ms. Sakshi Garg	
Lecture Theatre Arrangements and Recording and uploading presentation at reception area	Mr. Vijay Tiwari	
Photography	Mr. Amit Shrivastav	
Website Report	Ms. Rakhee Chibber	
Dossier	Ms. Mugdha Sharma	
Visitors Book	Ms. Monika Bansal	
Introductory speech, place cards & Vote of Thanks	Ms. Akanksha Bhardwaj	
You Tube uploading	Mr. Awadesh Kumar	
Supervision of the Guest Lecture	Ms. Radhika Soni Ms. Jyoti Arora	
Class Coordination MCA IV(I st shift) MCA IV(2 nd shift)	Mr. Somendra Kumar Ms. Mugdha Sharma	

FORM A

Proposal:

- **Name of the event to be organized:** Guest Lecture on “Oracle Database Technology”
- **Date:** February 12, 2015
- **Time:** 11:30 pm to 01:30 pm
- **Venue:** Lecture Theatre, RDIAS
- **Motivation for the activity:** To give MCA students knowledge of upcoming technocracy in the field of DBMS, along with the importance of knowledge extraction from enormous Data Bases and also provided hands on experience on **Oracle DBMS** for building and handling **Relational Data Bases**.
- **Organized by:** MCA Department
- **Resource Person:** Dr. Vipin, Trainer, Oracle Database Technology.

FORM B

Part 1

Aim of the event: Main objective was to impart knowledge and enhance the skills of the students in the domain “*oracle database technology*” by giving them practical and industrial exposure on all the important topics/areas related to Databases technologies in oracle. Oracle 11g is a software tool for design and storing the data, it could contain the raw, fact, figure and information or instruction of database. It was originally developed by Larry Ellison which was developed software laboratories in 1977. Oracle database can also provide an objective, independent view of database to allow the business to store and retrieve the database and understand the data about data of database implementation. Database tool techniques include, query handling, managing rows and column as tuples and attributes in a form of table and it also manage the deadlock condition by generating an error message i.e. ORA-00060.

Part 2

Abstract:

The overall session was initiated by **Dr. Vipin**, and covered following discussion points:-

1. Database concept
2. Evaluation of Database Management system
3. Define SQL commands and its queries using examples
4. Relational database system
5. Types of joins using in database
6. Deadlock detection

Dr. Vipin started his lecture by giving a glimpse of the historical background of the database management system and related attributes i.e. data, information, instructions and knowledge. A database management system (DBMS) is a collection of programs that enables you to store, modify, and extract information from a database. There are

many different types of DBMSs, ranging from small systems that run on personal computers to huge systems that run on mainframes. The following are examples of database applications:

- Computerized library systems
- Automated teller machines
- Flight reservation systems
- Computerized parts inventory systems

Sir further shared the concept of SQL and various types of SQL queries.

SQL, Structured Query Language is a special-purpose programming language designed for managing data held in a relational database management system (RDBMS), or for stream processing in a relational data stream management system (RDSMS).

Types of SQL Statements:-

SQL statements are divided into these categories:

Data Definition Language (DDL) Statements: - Data definition language (DDL)

Statements let you to perform these tasks:-

- Create, alter, and drop schema objects
- Grant and revoke privileges and roles
- Analyze information on a table, index, or cluster
- Establish auditing options
- Add comments to the data dictionary

Data Manipulation Language (DML) Statements:-

Data manipulation language (DML) statements access and manipulate data in existing schema objects. These statements do not implicitly commit the current transaction. The data manipulation language statements are: Insert, select, update, Lock Table, delete and many more commands.

Transaction Control Statements:- Transaction control statements manage changes made by DML statements. The transaction control statements are: commit rollback and save point.

Session Control Statements:- Session control statements dynamically manage the properties of a user session.

System Control Statement:- The single system control statement, ALTER SYSTEM, dynamically manages the properties of an Oracle Database instance.

SQL join: - SQL Join is used to fetch data from two or more tables, which is joined to appear as single set of data. SQL join is used for combining column from two or more tables by using values common to both tables

At the end of the session sir gave brief about deadlock concept, Deadlock is a situation in which two or more transactions are waiting for one another to give up locks.

Part 3

Conclusion

It is important for the students to be well acquainted with these applications and should be aware of the intricacies of implementing this technology. Keeping this in mind, a lecture was organized for the students of MCA. The session was very informative and technical for the students. The speaker explained all the points in detail using practical examples. It was a great exposure as the guest lecture was motivational, informative, and interactive.

Also speaker provided the knowledge to students about the future scope and requirement of industry in database technology.

Lecture Moments



Director, RDIAS sir giving motivational speech to students!!!



Director, RDIAS felicitating Dr. Vipin (Speaker)!!!



Sir sharing his knowledge with students!!!



Audience listening carefully..!!