

Vasavi College of Engineering

Ibrahimbagh-31

Department of Computer Science and Engineering

A Report on “**Insight into Relational Databases**” by Mr. G.Venkata Rajesh conducted on 29th Sept, 2013

(Conducted Under TEQIP-II)

A Guest Lecture on “**Insight into Relational Databases**” was delivered by Mr. G. Venkata Rajesh, Technical Specialist, IVY Comptech for the student audiences of BE 3/4 CSE on 29th Sept, 2013 in the seminar Hall, Ramanujan Block

Speaker Mr. G. Venkata Rajesh has worked for 13 years in IT Industry as Database Specialist. To add further to his credits he has trained numerous IT employees and students in Data base Management.

The objectives of the session were to aid the students with:

- Tips to write good SQL queries.
- Tips to write Application Programming for working with Database.
- Differences between OLAP and OLTP systems
- Various Career Opportunities for Database administrator.

The speaker Mr. Rajesh started the session with the brief introduction to the concept of Relational Databases with the major emphasis on RDBMS engines like Oracle, SQL Server, Postgressql, Teradata etc.

Apart from introduction on variety of engines speakers has also focused on table partitions, indexing techniques.

The most interesting part of session has proved to be the discussion on how to write the effective SQL queries and illustration of SQL queries in order to determine whether SQL queries are good or bad.

Speakers has also focused on some aspects of query cost factors like Execution time, CPU time, Number of Disk reads and Number of buffer gets.

The three vital things of Queries were discussion.

- Access path which is full table scan or Index scan.
- Join order.
- Join method.

The Oracle Architecture, ACID properties of transactions and the importance of Rollback command were discussed.

The tips on Database programming practice like how to make efficient function calls, efficient loops, minimization of data type conversions and difference OLAP and OLTP systems with few examples were discussed.

The performance factors and Tools like Profiler, AWR reports and Trace with the help of few sample reports were discussed.

In conclusion, the speaker discussed the various career opportunities in databases like database development, Data Modeler, Database Architects, Database Testing, Data warehousing, Performance Engineering and Databaseadministration.

