









R.M.K

COLLEGE OFENGINEERING AND TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 28-04-20

Facilitator: to 12-04-20

Target audience : II

Year CSE Students

P.N.Senthil Prakash, AP/CSE

Prof. Head of CSE Department

Convenor: Dr.D.Paulraj,

Topic: Training in SQL

(Hands on session)

Summary:

The two weeks training program aimed at providing hands on experience in SQL. Various topics including simple queries, operators like 'IN', 'NOT IN', 'LIKE', 'HAVING' etc, aggregation functions, views, nested queries, joins, PL/SQL procedures & triggers were discussed during this training session. Students were trained using mysql database and practice exercises were given at end of each session.

Tools Used

MYSQL:

MYSQL is a database management system that allows us to manage relational databases. It is open source software backed by Oracle. It means we can use MySQL without paying a dime. Also, if we want, we can change its source code to suit our needs. Even though MySQL is open source software, we can buy a commercial license version from Oracle to get premium support services. MySQL is pretty easy to master in comparison with other database software like Oracle Database, or Microsoft SQL Server. MySQL can run on various platforms UNIX, Linux, Windows, etc. We can install it on a server or even in a desktop.

Topics Discussed:

Views:

Views in SQL are considered as a virtual table. A view also contains rows and columns. To create the view, we can select the fields from one or more tables present in the database. A view can either have specific rows based on certain condition or all the rows of a table.

Joins:

The SQL Joins clause is used to combine records from two or more tables in a database. A JOIN is a means for combining fields from two tables by using values common to each. The different types of joins are inner join, left outer join, right outer join and full outer joins.





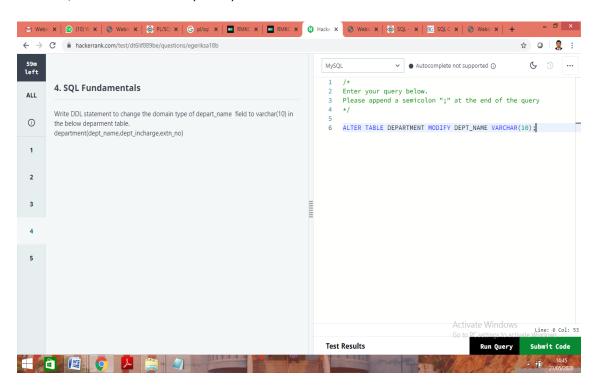
Cartesian Product:

The CARTESIAN JOIN or CROSS JOIN returns the Cartesian product of the sets of records from two or more joined tables. Thus, it equates to an inner join where the join-condition always evaluates to either True or where the join-condition is absent from the statement.

Summary of the technical session.

The participants were trained in the following features in SQL.

o Basic SQL commands – DDL, DML, TCL & DCL.

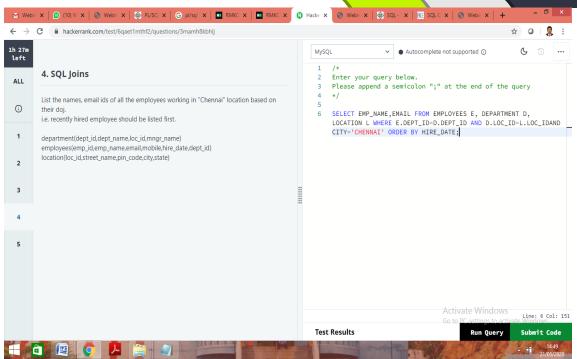


- Simple SQL queries, queries using aggregation functions.
- Creating & manipulating views.
- Queries using Cartesian product and joins.









To create procedures and triggers for real-time applications.

