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| Topic 1 : | **DBMS Introduction** What is mean by DBMS and its usage?  – Introduction to the relational databases  – Difference between relational and non-relational databases  – Different types of DBMS available in the market  – Different version of MYSQL server  – Why we are using SQL in DBMS?  – What is SQL and introduction to the SQL scripts? |
| Topic 2 : | **What is MYSQL**  Types of SQL commands – DDL: – DML – DCL – TCL – Integer datatypes – String datatypes – Date time data types – UDD-User Defined Data types – Arithmetic operator – Logical operator – Comparison operator – Variable definition – Types of variables – Local variables – Global variables |
| Topic 3 : | **Constraints in MYSQL** Types of SQL constraints – Primary key – Foreign key – Unique key – Not null – Default constraint – Check constraint – What is meant by identity? – how to manually insert a value in identity column? – How to reseed identity column values? – How to get the last generated identity values? |
| Topic 4 : | **Functions in MYSQL** What is meant by system functions? – Different types of system functions available – Aggregate functions – Mathematical functions – String functions – Date time functions – Other functions |
| Topic 5 : | **MYSQL Advanced** Order by, group by, top, distinct, having clause and alias – What is meant by schema? – How to create and drop a schema in MYSQL ? |
| Topic 6 : | **Joins in MYSQL** What is meant by joins in sql? – Types of joins – Inner join – Outer join – Left join – Right join – Full join – Cross join – MySQL Training Concepts |
| Topic 7 : | **Subquery in MYSQL** What is mean by subquery? – Types of subqueries – Independent subquery – Co related subquery – Types of set operations in sql – Union – Union all – Intersect – Except – Pre-conditions to use a set operator – Difference bw union and union all? |
| Topic 8 : | **Alternative Data representations** How to create temp tables – Types of temp tables – What are views in sql ? – Usage of views – Limitations of view in sql |
| Topic 9 : | **MySQL Programming – TSQL** Types of ranking functions – stored procedure – Types of SP – System stored procedure – User defined stored procedure – What is triggers – Types of triggers – DML triggers – DDL triggers – Logon triggers – How to enable and disable a trigger – what is cursors – Types of cursors – Life cycle on a cursor |
| Topic 10 : | **Index in MYSQL – Performance Tuning** What is index? – Types of indexes? – How to create statistics? – Execution plan and performance tuning concepts – How to identify the estimated and actual execution plan? – Important concepts in execution |