



Delhi Public School Guwahati

“Under the aegis of the Delhi Public School Society, Delhi”

LESSON PLAN

CYCLE 1: 10th May 2021-21st May 2021

Grade: XI

Subject: Informatics Practices

Name of the Lesson: MySQL Command Basics
MySQL Select Query Statement
Functions in MySQL

<i>Lesson Objectives</i>	
<i>General</i>	<i>Specific</i>
<i>Learners will know the concept of MySQL To enable students to know the concept of database handling.</i>	DDL/DML commands to CREATE TABLE, INSERT INTO, UPDATE TABLE, DELETE FROM, ALTER TABLE, MODIFY TABLE, DROP TABLE, keys, and foreign keys

<i>Pre-Requisites Of The Lesson-</i>
<i>Basic concept of Networking</i>
<i>a) LAN, WAN, MAN</i>
<i>b) Network Security</i>
<i>c) Node & Server concept</i>
<i>d) Type of Wires Used, Modem, Hardwares used.</i>
<i>e) TCP/IP, WWW, Wireless</i>

Instructional Procedures:

<i>Topics to be Covered</i>	<i>Keywords</i>	<i>Teaching Methodology Used</i>	<i>Software/Hardware Used</i>	<i>Practical Task</i>
<ul style="list-style-type: none"> Select Insert Update Delete String Functions 	<i>SELECT, INSERT, DELETE, UPDATE, Today(), Mid(), Mod() etc.</i>	<i>Explanation, Discussion, Real Life Examples, Computer Lab</i>	<i>MySQL</i>	<i>a) Create a Database named Student with following fields - Rollno number(10)(Primary Key)</i>



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LESSON PLAN

<ul style="list-style-type: none">• Date Functions• Numeric Functions				<ul style="list-style-type: none">- Name Varchar(30)- DOA Date- Percent Number(10) <p>b) Display the rollnos for percentage more then 80.</p> <p>c) Insert a record in the table.</p> <p>d) Delete a record with Name Ravi.</p> <p>e) Display the students with middle name as Kumar.</p>
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Extra Questions :

- (a) If a database "Employee" exists, which MySql command helps you to start working in that database?
- (b) Sahil created a table in Mysql. Later on he found that there should have been another column in the table. Which command should he use to add another column to the table?
- (c) Pooja, a students of class XI, created a table "Book". Price is a column of this table. To find the details of books whose prices have not been entered she wrote the following query:
Select * from Book where Price = NULL;
Help Pooja to run the query by removing the errors from the query and rewriting it.
- (d) Rama is not able to change a value in a column to NULL. What constraint did she specify when she created the table?
- (e) Distinguish between a Primary key and Candidate key with the help of suitable ex-ample of each.
- (f) The LastName column of a table "Directory" is given below:

LastName
Batra
Sehgal
Bhatia
Sharma
Mehta



LESSON PLAN

Based on this information, find the output of the following queries:

A. `SELECT lastname FROM Directory WHERE lastname like "_a%";`

B. `SELECT lastname FROM Directory WHERE lastname not like "%a";`

Q2. a) Explain the purpose of DDL and DML commands used in SQL. Also give two examples of each.

(b) Write the output of the following SQL queries: a) `SELECT ROUND(6.5675, 2);`

i) `SELECT TRUNCATE(5.3456, 1);`

ii) `SELECT DAYOFMONTH('2009-08-25');` d) `SELECT MID('Class 12', 2,3);`

(c) Consider the table TEACHER given below. Write commands in SQL for (1) to (4) and output for (5) to (8)

TEACHER						
ID	Name	Department	Hiredate	Category	Gender	
1	Tanya Nanda	SocialStudies	1994-03-17	TGT	F	25000
2	Saurabh Sharma	Art	1990-02-12	PRT	M	20000
3	Nandita Arora	English	1980-05-16	PGT	F	30000
4	James Jacob	English	1989-10-16	TGT	M	25000
5	Jaspreet Kaur	Hindi	1990-08-01	PRT	F	22000
6	Disha Sehgal	Math	1980-03-17	PRT	F	21000
7	Siddharth Kapoor	Science	1994-09-02	TGT	M	27000
8	Sonali Mukherjee	Math	1980-11-17	TGT	F	24500

i. To display all information about teachers of PGT category.

ii. To list the names of female teachers of Hindi department.

iii. To list names, departments and date of hiring of all the teachers in ascending order of date of joining

Sub Teacher

Sub-Supervisor