

Experiment No. 1

Objective: Understanding the use of DML command at MySQL platform.

Task: Open MySQL and Login with your ID and password given by your Teacher. Write and Execute the SQL command for the following and also write the steps/commands in your Practical notebook.

1 Create a Database named MYORG.

2 Open the Database with USE command.

3 Create a table name Emp with following structure.

empno	ename	job	hiredate	sal	comm
Number	Varchar	Char(10)	Date	Number	Number

4 Insert the following Records

empno	ename	job	hiredate	sal	comm
8369	SMITH	CLERK	1990-12-18	800.00	NULL
8499	ANYA	SALESMAN	1991-02-20	1600.00	300.00
8521	SETH	SALESMAN	1991-02-22	1250.00	500.00
8566	MAHADEVAN	MANAGER	1991-04-02	2985.00	NULL
8654	MOMIN	SALESMAN	1991-09-28	1250.00	400.00
8698	BINA	MANAGER	1991-05-01	2850.00	NULL
8882	SHIVANSH	MANAGER	1991-06-09	2450.00	NULL
8888	SCOTT	ANALYST	1992-12-09	3000.00	NULL
8839	AMIR	PRESIDENT	1991-11-18	5000.00	NULL
8844	KULDEEP	SALESMAN	1991-09-08	1500.00	0.00

5 Write a query to display all the records with all the columns.

6 Write a query to display EName and Sal of employees whose salary are greater than or equal to 2200

7 Write a query to display details of employs who are not getting commission.

8 Write a query to display employee name and salary of those employees who don't have their salary in range of 2500 to 4000.

9 Write a query to display the name of employee whose name contains "A" as third alphabet in Ascending order of employee names.

10 Write a query to display the ename and sal with 50% of sal as DA.

11 Write a query to display the name of employee whose name contains "M" as First and "L" as third alphabet.

12 Write a query to display details of employs with the text "Not given", if commission is null.

13 Display the distinct job titles offered by the Organization.

14 Display the Names of employees who are working as Manager or Analyst.

15 Display the names of employees who joined the organization on or after 01/05/1991.

Experiment No. 2

Objective: Understanding the use of DML command with MySQL functions.

Task: Open MySQL and load MYORG database. Write and Execute the SQL command for the following and also write the steps/commands in your Practical notebook.

- 1 Write commands to display the system date.
- 2 Write a command to display the name of current month.
- 3 Write command to print the day of the week of your birthday in the year 2015.
- 4 Write a query to display employee names in lower case from Emp table.
- 5 Write a query to display last 3 characters from all the names of employee from Emp table.
- 6 Write a query to display ename along with the position of 'N' character in ename column from Emp table.
- 7 Write a query to display ename and two characters from 2nd position in job column from Emp table.
- 8 Write a query to display ename and weekday on which they joined from Emp table.
- 9 Write a query to display ename along with number of years(experience) as on today from Emp table.
- 10 Write a query to display ename, Job and Date of retirement (60 years after Hiredate) from Emp table.
- 11 Write a query to find out the result of 6^3 .
- 12 Write a query to find out the result of $30^{1/2}$ (Square root of 30)
- 13 Write the command to display the ename and its length from Emp table.
- 14 Write the command to round off value 15.193 to nearest ten's i.e. 20.
- 15 Write a query to display ename concatenated by job from Emp table.

Experiment No. 3

Objective: Understanding the use of DDL commands.

Task: Write and Execute the SQL command for the following and also write the steps/commands in your Practical notebook.

1. Create table CUSTOMER as per following Table structure.

Column Name	CustID	CustName	CustAdd	CustCity	CustPhone
Data Type	NUMBER	VARCHAR	VARCHAR	VARCHAR	VARCHAR
Length	7	30	40	30	10
Constraints	Primary	Not Null			

2. Insert 5 records with relevant information in the Customer table.

3. Update all the records as add 'Mr.' with CustName.

4. Add one column Email of data type VARCHAR and size 30 to table Customer.

5. Add one more column CustIncomeGroup of data type VARCHAR(10).

6. Drop the column CustomerIncomeGroup from table Customer.

7. Modify the column CustCity as change the size 40 characters long.

8. Delete all the records who belongs to 'Jaipur'

9. Create table ORDER as per following Table structure. Also make CustNo as Foreign Key which refers CustID of CUSTOMER table.

Column Name	OrderNo	CustNo	ItemName	Qty	Price
Data Type	NUMBER	NUMBER	VARCHAR	NUMBER	NUMBER
Length	5	7	30	5	6,2
Constraints	Primary	>=2	Not Null		

10. Add 5 records as per defined constraints in Order table.

11. Create a table TEMPCUSTOMER from existing CUSTOMER table with CustID, CustName and CustPhone columns.

12. Write command to show the Tables in the MYORG Database.

13. Drop the TEMPCUSTOMER table.

14. Drop the Foreign Key constraints from the Order Table.

15. Drop the database MYORG.