## SARASWATI

### **Department of Computer Engineering**

# College of Engineering

#### **Experiment 4**

Aim: Perform DML Commands for you're the specified System.

Hardware and Software Requirement: P-IV and above, Oracle

**Theory:** 

**DML Commands**: Data Manipulation Language statements

-It is the area of SQL that allows changing data within the database.

#### Examples:

• **INSERT:** Insert data into a table.

Syntax:

INSERT INTO tablename VALUES (value list);

• **UPDATE:** Updates existing data within a table.

Syntax:

UPDATE tablename SET column\_name =value [ WHERE condition]

Example: update emp set sal=20000 where empno=7369;

• **DELETE:** Deletes all records from a table

Syntax:

DELETE FROM tablename WHERE condition

**DQL Commands**: Data Query Language

-It is the components of SQL stmts that allows getting data from database.

#### Examples:

• **SELECT:** Retrieve data from database.

SQL is based on set and relational operations with certain modifications and enhancements





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A typical SQL query has the form:

select  $A_1, A_2, ..., A_n$ from  $r_1, r_2, ..., r_m$ where P $A_i$  represents an attribute  $R_i$  represents a relation P is a predicate.

SELECT \* FROM tablename

Conclusion: We have Successfully used DML commands on our specified system using MYSQL Command Line.

#### **DML command and Output:**

mysql> select \* from clients c join invoices i on c.client\_id = i.client\_id; | invoice\_id | number client\_id | name | address | city | state | phone | client\_id | invoice\_total | payment\_total | invoice\_date | MUmbai | MH 1 adnan Jamal Nagar 1 adnan Jamal Nagar 2 shaam Nagpada 3 Shubham Navi-mumbai 3 Shubham Navi-mumbai 992-113-4556 | 992-113-4556 | 992-123-4354 | 828-863-4354 | 828-863-4354 | 2500.97 5500.97 1568.97 500.97 600.45 992-113-4556 992-113-4556 992-123-4556 rows in set (0.00 sec) ysql> update clients set address="Khargar",city="Navi-Mumbai" where client\_id = 3; uery OK, 1 row affected (0.00 sec) ows matched: 1 Changed: 1 Warnings: 0 ysql> delete from clients where client\_id =2;

RROR 1451 (23000): Cannot delete or update a parent row: a foreign key constraint fails (`practical3`.`invoices`, CONSTRAINT `FK\_client\_id` FOREIGN KEY (`cli
nt\_id') REFERENCES `clients (`client\_id') ON DELETE RESTRICT ON UPDATE CASCADE)
ysql> delete from invoices where client\_id =2;
uery OK, 1 row affected (0.01 sec) mysql> delete from clients where client\_id =2; Query OK, 1 row affected (0.01 sec) mysql> selet \* from clients;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'sel et \* from clients' at line 1
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