

BHARATIYA VIDYA BHAVAN'S

SARDAR PATEL INSTITUTE OF TECHNOLOGY

Munshi nagar, Andheri (W) ,Mumbai - 400058
DEPARTMENT OF MASTER OF COMPUTER APPLICATION

CLASS: F.Y. MCA SEM: I

COURSE CODE: MC504 SUBJECT NAME: DATABASE MANAGEMENT SYSTEM LAB

ROLL NO. : <u>2022510034</u> BATCH: <u>B</u>

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EXPERIMENT NO: 06

EXPERIMENT TITLE: To retrieve a data using Subquery

Subqueries in MYSQL

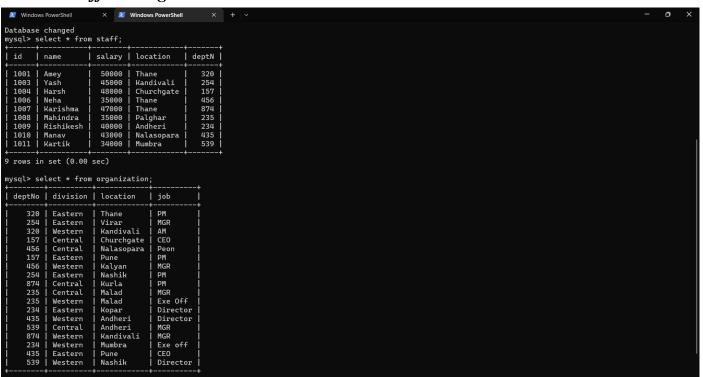
- 1. A subquery in MySQL is a query, which is nested into another SQL query and embedded with SELECT, UPDATE or DELETE statement along with the various operators.
- 2. We can also nest the subquery with another subquery. A subquery is known as the inner query, and the query that contains the subquery is known as the outer query.
- 3. The inner query executed first gives the result to the outer query, and then the main/outer query will be performed. MySQL allows us to use subquery anywhere, but it must be closed within parenthesis.
- 4. All subquery forms and operations supported by the SQL standard will be supported in MySQL also.

Syntax:

SELECT column_list (s) FROM table_name
WHERE column_name OPERATOR
(SELECT column list (s) FROM table name [WHERE])

Outputs:-

Tables :- staff and organization



```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use fymca;
Database changed
mysql> mysql> select name, salary, location from staff where deptN = (select deptNo from organization where location = 'Thane');
  name | salary | location |
  Amey | 50000 | Thane
1 row in set (0.00 sec)
mysql> select name, salary, location from staff where deptN = any (select deptNo from organization where division = 'Western');
             | salary | location |
  Amey
Karishma
Mahindra
Rishikesh
Kartik
                 50000
47000
35000
                         Thane
Thane
Palghar
                41000
41000
                         Andheri
Mumbra
 rows in set (0.00 sec)
mysql> select deptN, avg(salary) from staff group by deptN having avg(salary) >= all (select avg(salary) from staff group by deptN);
   320 | 50000.0000 |
 row in set (0.01 sec)
mysql> select id, name, location from staff where salary > 45000 and deptN in (select distinct deptNo from organization where job = 'PM');
                    location
       name
  1001 | Amey | Thane
1007 | Karishma | Thane
```



