Name : Deepankar Sharma

Course: BCA

University Roll No: 2092014

Student Id : 20041299

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**Practical 06: Group By and Having Clause**

**Objective:**  Study and Implementation of Group by & having clause.

mysql> show databases;

+--------------------+

| Database |

+--------------------+

| bca |

| deepankar |

| information\_schema |

| mysql |

| performance\_schema |

| sakila |

| sys |

| test |

| world |

+--------------------+

9 rows in set (0.03 sec)

mysql> use world;

Database changed

mysql> show tables;

+-----------------+

| Tables\_in\_world |

+-----------------+

| city |

| country |

| countrylanguage |

+-----------------+

3 rows in set (0.02 sec)

mysql> desc country;

+----------------+---------------------------------------------------------------------------------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------------+---------------------------------------------------------------------------------------+------+-----+---------+-------+

| Code | char(3) | NO | PRI | | |

| Name | char(52) | NO | | | |

| Continent | enum('Asia','Europe','North America','Africa','Oceania','Antarctica','South America') | NO | | Asia | |

| Region | char(26) | NO | | | |

| SurfaceArea | float(10,2) | NO | | 0.00 | |

| IndepYear | smallint | YES | | NULL | |

| Population | int | NO | | 0 | |

| LifeExpectancy | float(3,1) | YES | | NULL | |

| GNP | float(10,2) | YES | | NULL | |

| GNPOld | float(10,2) | YES | | NULL | |

| LocalName | char(45) | NO | | | |

| GovernmentForm | char(45) | NO | | | |

| HeadOfState | char(60) | YES | | NULL | |

| Capital | int | YES | | NULL | |

| Code2 | char(2) | NO | | | |

+----------------+---------------------------------------------------------------------------------------+------+-----+---------+-------+

15 rows in set (0.03 sec)

1. **GROUP BY:** Group By statement groups the rows that have the same values in the table.

mysql> select count(name) as No\_of\_Countries , continent from country group by continent ;

+-----------------+---------------+

| No\_of\_Countries | continent |

+-----------------+---------------+

| 37 | North America |

| 51 | Asia |

| 58 | Africa |

| 46 | Europe |

| 14 | South America |

| 28 | Oceania |

| 5 | Antarctica |

+-----------------+---------------+

7 rows in set (0.20 sec)

1. **Having**: Having clause supports the conditioning in aggregate functions on the groups formed by Group By clause.

mysql> select count(name) as No\_of\_Countries , continent from country group by continent having continent like 'A%' ;

+-----------------+------------+

| No\_of\_Countries | continent |

+-----------------+------------+

| 51 | Asia |

| 58 | Africa |

| 5 | Antarctica |

+-----------------+------------+

3 rows in set (0.06 sec)