

8. MySql – Imp functions

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8. MySql – Imp functions

1. Functions

- ✓ In mysql there are predefined functions.
- ✓ These functions helps us to finish basic requirements.

2. min(column name) function

- ✓ The min(column) is a predefined function in mysql.
- ✓ By using this function we can get minimum value from specific column

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Query Creating a table

```
mysql> select * from persons;
```

Output

```
mysql> select * from persons;
+-----+-----+-----+-----+-----+
| PersonID | LastName | FirstName | Address | location |
+-----+-----+-----+-----+-----+
| 101 | Danial | K | Near to Data Science Area | Hyderabad |
| 102 | Nireekshan | D | Near to AI Theatre | Bengaluru |
| 103 | Ranjan | M | Near to Python Theatre | Hyderabad |
| 104 | Prasad | K | Near to Python Road | Hyderabad |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

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Query Creating a table

```
mysql> select min(personid) from persons;
```

Output

```
+-----+
| min(personid) |
+-----+
| 101 |
+-----+
```

3. max(column name) function

- ✓ The max(column) is a predefined function in mysql.
- ✓ By using this function we can get maximum value from specific column

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Query Creating a table

```
mysql> select * from persons;
```

Output

```
mysql> select * from persons;
+-----+-----+-----+-----+-----+
| PersonID | LastName | FirstName | Address | location |
+-----+-----+-----+-----+-----+
| 101 | Danial | K | Near to Data Science Area | Hyderabad |
| 102 | Nireekshan | D | Near to AI Theatre | Bengaluru |
| 103 | Ranjan | M | Near to Python Theatre | Hyderabad |
| 104 | Prasad | K | Near to Python Road | Hyderabad |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

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Query Creating a table

```
mysql> select max(personid) from persons;
```

Output

```
+-----+
| max(personid) |
+-----+
| 104 |
+-----+
1 row in set (0.00 sec)
```

4. count(column name) function

- ✓ The count(column) is a predefined function in mysql.
- ✓ The count(column name) function returns the number of rows from the table.
- ✓ This function even returns the number of rows that matches a specified criterion.

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Query Creating a table

```
mysql> select * from persons;
```

Output

```
mysql> select * from persons;
+-----+-----+-----+-----+-----+
| PersonID | LastName | FirstName | Address | location |
+-----+-----+-----+-----+-----+
| 101 | Danial | K | Near to Data Science Area | Hyderabad |
| 102 | Nireekshan | D | Near to AI Theatre | Bengaluru |
| 103 | Ranjan | M | Near to Python Theatre | Hyderabad |
| 104 | Prasad | K | Near to Python Road | Hyderabad |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

Login Login with valid credentials

Query Creating a table

```
mysql> select count(location)
from persons;
```

Output

```
+-----+
| count(location) |
+-----+
| 4 |
+-----+
```

Login
Query

Login with valid credentials
Creating a table

```
mysql> select count(location)
      from persons
      where location = 'hyderabad';
```

Output

```
+-----+
| count(location) |
+-----+
|                3 |
+-----+
1 row in set (0.00 sec)
```

5. avg(column name) function

- ✓ The avg(column) is a predefined function in mysql.
- ✓ The avg(column name) function returns average value from the values

Login Login with valid credentials
Query Creating a table

```
mysql> create table products(  
      prodname varchar(255),  
      prodprice int  
      );
```

Output

Table created successfully

Login Login with valid credentials
Query Insert the data into table

```
mysql> insert into products(prodname, prodprice)  
      values ('samsung', 12000);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into products(prodname, prodprice)  
      values ('iphone 14', 75000);
```

Query OK, 1 row affected (0.01 sec)

```
mysql> insert into products(prodname, prodprice)  
      values ('nokia', 10000);
```

Query OK, 1 row affected (0.01 sec)

Output

Data inserted successfully into the products table

Login Query

Login with valid credentials

Select table

```
mysql> select * from products;
```

Output

prodname	prodprice
samsung	12000
iphone 14	75000
nokia	10000

Login Query

Login with valid credentials

Apply avg(column) function

```
mysql> select avg(prodprice)  
from products;
```

Output

avg(prodprice)
32333.3333

6. sum(column name) function

- ✓ The sum(column) is a predefined function in mysql.
- ✓ The sum(column name) function returns sum of all values in column

Login Login with valid credentials

Query Select table

```
mysql> select * from products;
```

Output

prodname	prodprice
samsung	12000
iphone 14	75000
nokia	10000

Login Login with valid credentials

Query Apply sum(column) function

```
mysql> select sum(prodprice)
      from products;
```

Output

sum(prodprice)
97000