



***INSTITUTE OF INFORMATION TECHNOLOGY***  
***JAHANGIRNAGAR UNIVERSITY***

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IIT – JU

## ASCII

Return the ASCII value of the first character in Cust\_name.

```
mysql> select cust_name, ASCII(cust_name) from customers;
+-----+-----+
| cust_name | ASCII(cust_name) |
+-----+-----+
| Badshah   | 66                |
| Ayesha    | 65                |
| Robert    | 82                |
| Darwin    | 68                |
| Danish    | 68                |
| Sohel     | 83                |
+-----+-----+
6 rows in set (0.03 sec)
```

## CHAR\_LENGTH

Return the length of the string (in characters)

```
mysql> select cust_name,char_length(cust_name) from customers;
+-----+-----+
| cust_name | char_length(cust_name) |
+-----+-----+
| Badshah   | 7                      |
| Ayesha    | 6                      |
| Robert    | 6                      |
| Darwin    | 6                      |
| Danish    | 6                      |
| Sohel     | 5                      |
+-----+-----+
6 rows in set (0.06 sec)
```

## CHARACTER LENGTH

Return the length of the string (in characters)

```
mysql> select cust_name,character_length(cust_name) from customers;
+-----+-----+
| cust_name | character_length(cust_name) |
+-----+-----+
| Badshah   | 7 |
| Ayesha    | 6 |
| Robert    | 6 |
| Darwin    | 6 |
| Danish    | 6 |
| Sohel     | 5 |
+-----+-----+
6 rows in set (0.00 sec)
```

## CONCAT

The CONCAT( ) function adds two or more expressions together.

```
mysql> select cust_name,concat(cust_name," Khan ") from customers;
+-----+-----+
| cust_name | concat(cust_name," Khan ") |
+-----+-----+
| Badshah   | Badshah Khan |
| Ayesha    | Ayesha Khan |
| Robert    | Robert Khan |
| Darwin    | Darwin Khan |
| Danish    | Danish Khan |
| Sohel     | Sohel Khan |
+-----+-----+
6 rows in set (0.00 sec)
```

## CONCAT\_WS

The CONCAT\_WS() function adds two or more expressions together with a separator.

```
mysql> select cust_id,concat_ws( " " ,cust_name,cust_country) As Name_Address from customers;
+-----+-----+
| cust_id | Name_Address |
+-----+-----+
| C-1     | Badshah India |
| C-2     | Ayesha Bangladesh |
| C-3     | Robert England |
| C-4     | Darwin England |
| C-5     | Danish USA |
| C-6     | Sohel Bangladesh |
+-----+-----+
6 rows in set (0.00 sec)
```

## FIELD

The FIELD() function returns the index position of a value in a list of values.

```
mysql> select field(4,7,5,3,2,4);
+-----+
| field(4,7,5,3,2,4) |
+-----+
| 5 |
+-----+
1 row in set (0.00 sec)
```

## FIELD IN SET

The FIND\_IN\_SET() function returns the position of a string within a list of strings.

```
mysql> select find_in_set("Robert","Badsha,Robert,Darwin,Sohel");
+-----+
| find_in_set("Robert","Badsha,Robert,Darwin,Sohel") |
+-----+
|                                                    2 |
+-----+
1 row in set (0.11 sec)
```

## FORMAT

The FORMAT() function formats a number to a format like "3.1415321", rounded to a specified number of decimal places, then it returns the result as a string.

```
mysql> select FORMAT(3.14165321,4);
+-----+
| FORMAT(3.14165321,4) |
+-----+
| 3.1417                |
+-----+
1 row in set (0.00 sec)
```

**INSERT**

The `INSERT()` function inserts a string within a string at the specified position and for a certain number of characters.

```
mysql> select insert("Shakil Ahmed",7,6," Hossain");
+-----+
| insert("Shakil Ahmed",7,6," Hossain") |
+-----+
| Shakil Hossain                        |
+-----+
1 row in set (0.00 sec)
```

**INSTR**

The INSTR() function returns the position of the first occurrence of a string in another string.

```
mysql> select instr("Shakil Hossain"," Hossain");
+-----+
| instr("Shakil Hossain"," Hossain") |
+-----+
| 7 |
+-----+
1 row in set (0.00 sec)
```

## LCASE

The LCASE() function converts a string to lower-case.

```
mysql> select shipper_name, lcase(shipper_name) As Lower_Case from shippers;
+-----+-----+
| shipper_name | Lower_Case |
+-----+-----+
| Amazon      | amazon     |
| Ocean-12     | ocean-12   |
| Ocean-11     | ocean-11   |
| Amazon      | amazon     |
+-----+-----+
4 rows in set (0.02 sec)
```

## LEFT

The LEFT() function extract left character from string

```
mysql> select shipper_country , left(shipper_country, 2) AsExtract_2_left_char f
rom shippers;
+-----+-----+
| shipper_country | AsExtract_2_left_char |
+-----+-----+
| England        | En                  |
| India          | In                  |
| USA            | US                  |
| England        | En                  |
+-----+-----+
4 rows in set (0.55 sec)
```

## LENGTH

The LENGTH( ) function finds the String length.

```
mysql> select shipper_name, length(shipper_name) As Length_of_Shipper_Name from shippers;
+-----+-----+
| shipper_name | Length_of_Shipper_Name |
+-----+-----+
| Amazon      | 6                       |
| Ocean-12    | 8                       |
| Ocean-11    | 8                       |
| Amazon      | 6                       |
+-----+-----+
4 rows in set (0.00 sec)
```

## LOCATE

The LOCATE() function returns the position of the first occurrence of a substring in a string.

If the substring is not found within the original string, this function returns 0. This function performs a case-insensitive search.

```
mysql> select cust_name, locate("a", cust_name) from customers;
+-----+-----+
| cust_name | locate("a", cust_name) |
+-----+-----+
| Badshah   | 2                       |
| Ayesha    | 1                       |
| Robert    | 0                       |
| Darwin    | 2                       |
| Danish    | 2                       |
| Sohel     | 0                       |
+-----+-----+
6 rows in set (0.01 sec)
```



## LOWER

The LOWER() function converts a string to lower-case.

```
mysql> select shipper_name, lower(shipper_name) As Lower_Case from shippers;
+-----+-----+
| shipper_name | Lower_Case |
+-----+-----+
| Amazon      | amazon     |
| Ocean-12     | ocean-12   |
| Ocean-11     | ocean-11   |
| Amazon      | amazon     |
+-----+-----+
4 rows in set (0.00 sec)
```

## LPAD

The LPAD() function left-pads a string with another string, to a certain length

```
mysql> select lpad(cust_name, 10, "Dr.") from customers;
+-----+
| lpad(cust_name, 10, "Dr.") |
+-----+
| Dr.Badshah                 |
| Dr.DAyesha                 |
| Dr.DRobert                 |
| Dr.DDarwin                 |
| Dr.DDanish                 |
| Dr.DrSohel                 |
+-----+
6 rows in set (0.10 sec)
```

## LTRIM

Removes leading spaces from a string

```
mysql> select LTRIM("    Md. Shakil Hossain") as Remove_Space_From_Left;
+-----+
| Remove_Space_From_Left |
+-----+
| Md. Shakil Hossain     |
+-----+
1 row in set (0.15 sec)
```

## MID

Extracts a substring from a string (starting at any position.

```
mysql> select cust_name, MID(cust_name, 2,3) As Extract_From_Mid from customers;
+-----+-----+
| cust_name | Extract_From_Mid |
+-----+-----+
| Badshah   | ads              |
| Ayesha    | yes              |
| Robert    | obe              |
| Darwin    | arw              |
| Danish    | ani              |
| Sohel     | ohe              |
+-----+-----+
6 rows in set (0.00 sec)
```

## POSITION

Returns the position of the first occurrence of a substring in a string

```
mysql> select position("w" IN "Darwin") As Match_At;
+-----+
| Match_At |
+-----+
|         4 |
+-----+
1 row in set (0.00 sec)
```

## REPEAT

Repeats a string as many times as specified

```
mysql> select cust_name,repeat(cust_name,3) As Repeat_Cust_Name from customers;
+-----+-----+
| cust_name | Repeat_Cust_Name |
+-----+-----+
| Badshah   | BadshahBadshahBadshah |
| Ayesha    | AyeshaAyeshaAyesha   |
| Robert    | RobertRobertRobert   |
| Darwin    | DarwinDarwinDarwin    |
| Danish    | DanishDanishDanish    |
| Sohel     | SohelSohelSohel      |
+-----+-----+
6 rows in set (0.10 sec)
```

## REPLACE

Replaces all occurrences of a substring within a string, with a new substring

```
mysql> select replace("Md. Shakil Ahmed", "Ahmed", "Hossain");
+-----+
| replace("Md. Shakil Ahmed", "Ahmed", "Hossain") |
+-----+
| Md. Shakil Hossain                               |
+-----+
1 row in set (0.00 sec)
```

## REVERSE

Reverses a string and returns the result

```
mysql> select cust_name, reverse(cust_name) as Reverse_Name from customers;
+-----+-----+
| cust_name | Reverse_Name |
+-----+-----+
| Badshah   | hahsdaB     |
| Ayesha    | ahseyA      |
| Robert    | treboR      |
| Darwin    | niwraD      |
| Danish    | hsinaD      |
| Soheli     | lehoS       |
+-----+-----+
6 rows in set (0.02 sec)
```

## RIGHT

The RIGHT( ) function extract right character from string

```
mysql> select shipper_country, right(shipper_country,2) As Extract_2_right_char_from_Shipper_country from shippers;
```

shipper_country	Extract_2_right_char_from_Shipper_country
England	nd
India	ia
USA	SA
England	nd

```
4 rows in set (0.00 sec)
```

## RPAD

Right-pads a string with another string, to a certain length

```
mysql> select rpad(cust_name, 10, "Dr.") from customers;
```

rpad(cust_name, 10, "Dr.")
BadshahDr.
AyeshaDr.D
RobertDr.D
DarwinDr.D
DanishDr.D
SohelDr.Dr

```
6 rows in set (0.10 sec)
```

## RTRIM

Removes trailing spaces from a string

```
mysql> select RTRIM("Md. Shakil Hossain      ") as Remove_Space_From_Right;
+-----+
| Remove_Space_From_Right |
+-----+
| Md. Shakil Hossain      |
+-----+
1 row in set (0.03 sec)
```

## SPACE

Returns a string of the specified number of space characters

```
mysql> select space(5) As Space_5;
+-----+
| Space_5 |
+-----+
|         |
+-----+
1 row in set (0.00 sec)
```

**STRCMP**

## Compares two strings

```
mysql> select STRCMP("Shakil","Shakil") As Equal_0;
+-----+
| Equal_0 |
+-----+
|        0 |
+-----+
1 row in set (0.19 sec)
```

```
mysql> select STRCMP("Shakil Hossain","Shakil");
+-----+
| STRCMP("Shakil Hossain","Shakil") |
+-----+
| 1 |
+-----+
1 row in set (0.00 sec)
```

```
mysql> select STRCMP("Shakil","Shakil Hossain");
+-----+
| STRCMP("Shakil","Shakil Hossain") |
+-----+
| -1 |
+-----+
1 row in set (0.00 sec)
```

## SUBSTR

Extracts a substring from a string (starting at any position)

```
mysql> SELECT SUBSTR(cust_name, 1, 4) AS ExtractString from customers;
+-----+
| ExtractString |
+-----+
| Bads          |
| Ayes          |
| Robe          |
| Darw          |
| Dani          |
| Sohe          |
+-----+
6 rows in set (0.00 sec)
```

## SUBSTRING

Extracts a substring from a string (starting at any position)

```
mysql> SELECT SUBSTRING(cust_name, 1, 5) AS ExtractString from customers;
+-----+
| ExtractString |
+-----+
| Badsh         |
| Ayesh         |
| Rober         |
| Darwi         |
| Danis         |
| Sohel         |
+-----+
6 rows in set (0.14 sec)
```



## SUBSTRING\_INDEX

Returns a substring of a string before a specified number of delimiter occurs

```
mysql> select SUBSTRING_INDEX("www.google.com", ".", 2);
+-----+
| SUBSTRING_INDEX("www.google.com", ".", 2) |
+-----+
| www.google                                |
+-----+
1 row in set (0.03 sec)
```

## TRIM

Removes leading and trailing spaces from a string

```
mysql> select TRIM("    Md. Shakil Hossain    ");
+-----+
| TRIM("    Md. Shakil Hossain    ") |
+-----+
| Md. Shakil Hossain                |
+-----+
1 row in set (0.01 sec)
```

## UCASE

This function converts a string to upper-case.

```
mysql> select shipper_name, UCASE(shipper_name) As Uper_Case from Shippers_shakil_2023;
```

shipper_name	Uper_Case
Amazon	AMAZON
Ocean-12	OCEAN-12
Ocean-11	OCEAN-11
Amazon	AMAZON

```
4 rows in set (0.38 sec)
```

## UPPER

This function converts a string to upper-case.

```
mysql> select cust_name, upper(cust_name) from customers;
```

cust_name	upper(cust_name)
Badshah	BADSHAH
Ayesha	AYESHA
Robert	ROBERT
Darwin	DARWIN
Danish	DANISH
Sohel	SOHEL

```
6 rows in set (0.92 sec)
```

---

**THE END**