




```
1  -- SQL FUNCTION
2
3  -- SQL functions are generally divided into:
4
5  -- Type                Description
6  -- Scalar Functions --> Operate on a single value and return a single value.
7  -- Aggregate Functions --> Operate on a set of values and return a single value.
8
9  -- STRING FUNCTION
10
11 • use urban_insights ;
12
```

```

11 • use urban_insights ;
12
13 -- 1. CHAR_LENGTH() / LENGTH()
14 • SELECT district , char_length(district) as district_length
15 from dataset1;
16 -- Example: If District = 'New Delhi', output = 9.
17
18

```



Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	district	district_length
▶	South Andaman	13
	North And Middle Andaman	24
	Nicobars	8
	Rangareddy	10
	East Godavari	13
	Guntur	6
	Krishna	7
	Visakhapatnam	13
	Chittoor	8
	Anantapur	9
	Kurnool	7
	Mahbubnagar	11
	Hyderabad	9

```

21
22 -- 2. LOCATE(substring, string)
23 -- Finds the position of a substring in a string (SQL Server style).
24 • SELECT District, locate('a', District) AS position_of_a
25 FROM dataset1;
26 -- 'a' is located at 7th index in 'South Andaman'
27

```




Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	District	position_of_a
▶	South Andaman	South Andaman
	North And Middle Andaman	7
	Nicobars	6
	Rangareddy	2
	East Godavari	2
	Guntur	0
	Krishna	7
	Visakhapatnam	4
	Chittoor	0
	Anantapur	1
	Kurnool	0
	Mahbubnagar	2
	Hyderabad	6
	West Godavari	9

```

29  -- 3. CONCAT(str1, str2, ...)
30  -- Joins two or more strings.
31 • SELECT district , state , concat(district,',',state)
32    from dataset1;
33  -- E.g., Agra, Uttar Pradesh
34
35

```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	district	state	concat(district,',',state)
▶	South Andaman	Andaman And Nicobar Islands	South Andaman,Andaman And Nicobar Islands
	North And Middle Andaman	Andaman And Nicobar Islands	North And Middle Andaman,Andaman And Nicob...
	Nicobars	Andaman And Nicobar Islands	Nicobars,Andaman And Nicobar Islands
	Rangareddy	Andhra Pradesh	Rangareddy,Andhra Pradesh
	East Godavari	Andhra Pradesh	East Godavari,Andhra Pradesh
	Guntur	Andhra Pradesh	Guntur,Andhra Pradesh
	Krishna	Andhra Pradesh	Krishna,Andhra Pradesh
	Visakhapatnam	Andhra Pradesh	Visakhapatnam,Andhra Pradesh
	Chittoor	Andhra Pradesh	Chittoor,Andhra Pradesh
	Anantapur	Andhra Pradesh	Anantapur,Andhra Pradesh
	Kurnool	Andhra Pradesh	Kurnool,Andhra Pradesh
	Mahbubnagar	Andhra Pradesh	Mahbubnagar,Andhra Pradesh
	Hyderabad	Andhra Pradesh	Hyderabad,Andhra Pradesh
	West Godavari	Andhra Pradesh	West Godavari,Andhra Pradesh
	Karimnagar	Andhra Pradesh	Karimnagar,Andhra Pradesh

```
37 -- 4. LEFT(string, n) & RIGHT(string, n)
38 • select district,
39 left(district,3) as first_3_chars
40 from dataset1;
41
42
43
```

Result Grid

  Filter Rows:

Export: 

Wrap Cell Content: 

	district	first_3_chars
▶	South Andaman	Sou
	North And Middle Andaman	Nor
	Nicobars	Nic
	Rangareddy	Ran
	East Godavari	Eas
	Guntur	Gun
	Krishna	Kri
	Visakhapatnam	Vis
	Chittoor	Chi
	Anantapur	Ana
	Kurnool	Kur
	Mahbubnagar	Mah
	Hyderabad	Hyd
	West Godavari	Wes
	Karimnagar	Kar

```

43  -- RIGHT(string, n)
44 •  select district,
45     right(district,3) as last_3_chars
46     from dataset1;
47
48

```

Result Grid 
 


 Filter Rows: 
 Export: 
 Wrap Cell Content: 

	district	last_3_chars
▶	South Andaman	man
	North And Middle Andaman	man
	Nicobars	ars
	Rangareddy	ddy
	East Godavari	ari
	Guntur	tur
	Krishna	hna
	Visakhapatnam	nam
	Chittoor	oor
	Anantapur	pur
	Kurnool	ool
	Mahbubnagar	gar
	Hyderabad	bad
	West Godavari	ari

```

50  -- 5. REPLACE(string, search, replace)
51 • SELECT District,
52      REPLACE(District, ' ', '_') AS formatted_distri
53 FROM dataset1;
54
55

```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	District	formatted_district
▶	South Andaman	South_Andaman
	North And Middle Andaman	North_And_Middle_Andaman
	Nicobars	Nicobars
	Rangareddy	Rangareddy
	East Godavari	East_Godavari
	Guntur	Guntur
	Krishna	Krishna
	Visakhapatnam	Visakhapatnam
	Chittoor	Chittoor
	Anantapur	Anantapur
	Kurnool	Kurnool
	Mahbubnagar	Mahbubnagar
	Hyderabad	Hyderabad
	West Godavari	West_Godavari

```

57  -- 6. REVERSE(string)
58 • select district,
59     reverse(district) as reversed_string
60 from dataset1;
61
62

```




<div> <div>Result Grid</div> <div> <div></div> <div></div> </div> <div>Filter Rows: <input type="text"/></div> <div> <div>Export:</div> <div></div> </div> <div>Wrap Cell Content: <a href="#">IA</a></div> </div>		
	District	formatted_district
▶	South Andaman	South_Andaman
	North And Middle Andaman	North_And_Middle_Andaman
	Nicobars	Nicobars
	Rangareddy	Rangareddy
	East Godavari	East_Godavari
	Guntur	Guntur
	Krishna	Krishna
	Visakhapatnam	Visakhapatnam
	Chittoor	Chittoor
	Anantapur	Anantapur
	Kurnool	Kurnool
	Mahbubnagar	Mahbubnagar
	Hyderabad	Hyderabad
	West Godavari	West_Godavari



```

63  -- SUBSTR(string, start, length) / SUBSTRING()
64  -- Extract part of string starting at start, for length characters.
65 • select district,
66    substring(district,2,4 ) as partial_name
67  from dataset1;  -- started from 2nd char till 4th character.
68

```

Result Grid |  Filter Rows:  | Export:  | Wrap Cell Content: 

	district	partial_name
▶	South Andaman	outh
	North And Middle Andaman	orth
	Nicobars	icob
	Rangareddy	anga
	East Godavari	ast
	Guntur	untu
	Krishna	rish
	Visakhapatnam	isak
	Chittoor	hitt
	Anantapur	nant
	Kurnool	urno
	Mahbubnagar	ahbu
	Hyderabad	yder
	West Godavari	est

```

69      -- 8. TRIM() / LTRIM() / RTRIM()
70      -- Removes extra spaces if present.
71 •   SELECT district,
72      trim(district) as trimmed,
73      ltrim(district) as Left_trimmed,
74      rtrim(district) as Right_trimmed
75      FROM dataset1;

```

Result Grid



Filter Rows:

Export:



Wrap Cell Content:

	district	partial_name
▶	South Andaman	outh
	North And Middle Andaman	orth
	Nicobars	icob
	Rangareddy	anga
	East Godavari	ast
	Guntur	untu
	Krishna	rish
	Visakhapatnam	isak
	Chittoor	hitt
	Anantapur	nant
	Kurnool	urno
	Mahbubnagar	ahbu
	Hyderabad	yder
	West Godavari	est

```

78      -- 9. UPPER() / LOWER()
79      -- Converts string to uppercase or lowercase.
80 •    SELECT District,
81          UPPER(District) AS district_upper,
82          LOWER(District) AS district_lower
83      FROM dataset1;
84

```

Result Grid

 Filter Rows: 
Export: 
Wrap Cell Content: 

	District	district_upper	district_lower
▶	South Andaman	SOUTH ANDAMAN	south andaman
	North And Middle Andaman	NORTH AND MIDDLE ANDAMAN	north and middle andaman
	Nicobars	NICOBARS	nicobars
	Rangareddy	RANGAREDDY	rangareddy
	East Godavari	EAST GODAVARI	east godavari
	Guntur	GUNTUR	guntur
	Krishna	KRISHNA	krishna
	Visakhapatnam	VISAKHAPATNAM	visakhapatnam
	Chittoor	CHITTOOR	chittoor
	Anantapur	ANANTAPUR	anantapur
	Kurnool	KURNOOL	kurnool
	Mahbubnagar	MAHBUBNAGAR	mahbubnagar
	Hyderabad	HYDERABAD	hyderabad
	West Godavari	WEST GODAVARI	west godavari