**Function SQL**

**نقوم بأنشاء جدول يحتوي على مجموعة من الكلمات**

**CREATE TABLE functiontext (`id` INT NOT NULL , `WordText` VARCHAR(255) NOT NULL , PRIMARY KEY (`id`)) ENGINE = InnoDB;**

1. **Left(String , Length)**

**select left(WordText,2) from functiontext**

1. **Right(String , Length)**

**select right(WordText,2) from functiontext**

1. **MID(String ,Position, Length)**

**select MID(WordText,2,3) from functiontext**

1. **CHAR\_LENGTH( (column Name)**

**select WordText, CHAR\_LENGTH(WordText) AS 'count Charcter ' from functiontext**

**Return Length Character   
  
EX : Order By Character Length   
  
select WordText, CHAR\_LENGTH(WordText) AS 'count Charcter ' from functiontext**

**ORDER BY CHAR\_LENGTH(WordText)**

**select WordText, CHAR\_LENGTH(WordText) AS 'count Charcter ' from functiontext**

**ORDER BY CHAR\_LENGTH(WordText) ASC**

**select WordText, CHAR\_LENGTH(WordText) AS 'count Charcter ' from functiontext**

**ORDER BY CHAR\_LENGTH(WordText) DESC**

1. **LENGTH( (column Name)**

**select WordText, LENGTH(WordText) AS 'count Charcter ' from functiontext**

**Return Byte Of Character in The Memory   
  
For Example :** insert € Character  
Length Return : 3 Byte  
But Char\_Length Return 1 Character

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

1. **Upper( (column Name)**

**select WordText, UPPER(WordText) AS 'UPPER CASE ' from functiontext   
  
=  
select WordText, Ucase(WordText) AS 'UPPER CASE ' from functiontext**

1. **LOWER( (column Name)**

**select WordText, LOWER(WordText) AS 'UPPER CASE ' from functiontext   
  
=  
  
select WordText, Lcase(WordText) AS 'UPPER CASE ' from functiontext**

1. **REPEAT ( (column Name , Repeat Number )**

**select WordText, REPEAT(WordText,3) AS 'REPEATED ' from functiontext**

1. **REPLACE ( (column Name , Old Word Or Character , New Word Or Chacrter )**

**select WordText, REPLACE(WordText,'C','@') AS 'REPLACE ' from functiontext**

**select WordText, REPLACE(WordText,'HTTP','HTTPS') AS 'REPLACE ' from functiontext   
  
EX : REPLACE By Update   
  
UPDATE functiontext SET WordText = REPLACE(WordText,'HTTP','HTTPS')**

1. **REVERSE ( (column Name)**

**select WordText, REVERSE (WordText) AS ‘ REVERSE ' from functiontext   
  
EX : REVERSE By Update  
UPDATE functiontext SET WordText = REVERSE(WordText)**

1. **CONCAT ( (column Name, column Name)**

**select WordText, CONCAT('Added By ME ' ,WordText,'Added By ME ' ) AS 'Concatinte' from functiontext**

**select id ,WordText, CONCAT('Added By ME ' ,WordText,'Added By ME ' , id ) AS 'Concatinte' from functiontext**

**EX : by CONCAT\_WS (,)**

**select id ,WordText,CONCAT\_WS(',',WordText, id ) AS 'Concatinte' from functiontext   
  
  
EX : by CONCAT Nested by CONCAT\_WS**

**select id ,WordText,CONCAT\_WS(',',CONCAT(id,''),CONCAT('',WordText)) AS 'Concatinte' from functiontext**

**EX : by CONCAT & ReVSERSE  
select id ,WordText,REVERSE(CONCAT(id,WordText)) AS 'Concatinte' from functiontext**

1. **INSERT ( (column Name, POSITION,LENGTH,new String)**

**select WordText,INSERT(WordText,3,2,'OMAR') AS 'NEW STRING' from functiontext   
  
  
UPDATE functiontext SET WordText=INSERT(WordText,3,2,'OMAR') ;  
  
UPDATE functiontext SET WordText=INSERT(WordText,3,2,id) ;**

1. **TRIM ( Column Name ) Remove Space From Both Start and End**

**select WordText,TRIM(WordText) AS ' Text With Space' from functiontext**

**Trim By Leading ( Remove Space From Start Only )**

**select WordText,TRIM(LEADING FROM WordText) AS ' Remove Space From Start' from functiontext   
  
Trim By TRAILING ( Remove Space From Start Only )  
select WordText,TRIM(TRAILING FROM WordText) AS ' Remove Space From END' from functiontext   
  
Trim By BOTH ( Remove Space From Start Only )  
select WordText,TRIM(BOTH FROM WordText) AS ' Remove Space From Start And End' from functiontext   
  
  
Trim By BOTH ( Remove Space From Start Only ) & CHAR\_LENGTH  
select WordText,TRIM(BOTH FROM WordText) AS ' Remove Space From Start And End',**

**CHAR\_LENGTH(TRIM(BOTH FROM WordText)) As ' Both TRIM '**

**from functiontext   
  
Trim By BOTH ( Remove Space From Start Only ) & CHAR\_LENGTH  
select WordText,TRIM(BOTH FROM WordText) AS ' Remove Space From Start And End',**

**CHAR\_LENGTH(WordText) AS ' TEXT Lenght Without TRIM ',**

**CHAR\_LENGTH(TRIM(BOTH FROM WordText)) As ' Both TRIM '**

**from functiontext**

**LTRIM ( Remove Space From Start Only )   
  
select WordText,LTRIM(WordText) AS ' Remove Space From Start '**

**from functiontext   
  
  
  
  
RTRIM ( Remove Space From END Only )   
  
select WordText,RTRIM(WordText) AS ' Remove Space From Start '**

**from functiontext**

1. **CEIL ( Approximate To Digit Number Greater Than The Decimal Number )  
     
   select Bouns AS 'Main', CEIL(Bouns) AS 'New Number'**

**from functiontext**

1. **Floor ( Approximate To Digit Number Less Than The Decimal Number )  
     
   select Bouns AS 'Main', Floor(Bouns) AS 'New Number'**

**from functiontext**

1. **ROUND ( Approximate To Digit Number Less Or Greater Than Depend On the Decimal Number )  
     
   select Bouns AS 'Main', Round(Bouns) AS 'New Number'**

**from functiontext**

1. **TRUNCATE ( Approximate To Digit Number Less Or Greater Than Depend On the Decimal Number )**

**select Bouns AS 'Main', Round(Bouns) AS 'New Number',**

**TRUNCATE(Bouns,5)**

**from functiontext;  
  
EX: By Insert   
  
INSERT INTO functiontext (id,WordText,Bouns)**

**VALUES (11,'Sameh',TRUNCATE(123456.5693,5))**

**19-POW(Root,Power)**

**SELECT POW(2,3)  
  
SELECT Bouns,POWER\_COL, POW(Bouns,POWER\_COL)As 'Bouns By Power'**

**From functiontext;**

**20-MOD(Number,Number)**

**SELECT MOD(10,3)  
  
SELECT Bouns,POWER\_COL, MOD (Bouns,POWER\_COL)As ' MOD '**

**From functiontext;**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
  
  
21- Time Function HH:MM:SS  
  
SELECT CURRENT\_TIME()  
  
SELECT CURRENT\_TIME  
  
SELECT CURTIME()  
  
22- Date Function YY:MM:DD  
SELECT CURDATE()**

**SELECT CURRENT\_DATE()**

**SELECT CURRENT\_DATE  
  
23- Date & TIME Function YY:MM:DD HH:MM:SS  
  
  
SELECT NOW()**

**SELECT CURRENT\_TIMESTAMP()**

**SELECT CURRENT\_TIMESTAMP  
  
24- Day Name Function   
DAYNAME:   
EX : SELECT CURDATE() AS 'TODAY',DAYNAME(CURDATE()) As 'TODAY NAME'  
  
EX : SELECT CURDATE() AS 'TODAY',DAYNAME('2016-07-30') As 'TODAY NAME'  
  
EX : SELECT id,Bouns,Add\_Day,DAYNAME(Add\_Day) As 'Add Bouns Day'**

**from functiontext;**

**EX : SELECT CURDATE() AS 'TODAY',DAYNAME(CURDATE()) As 'TODAY NAME'  
  
DAYOFMONTH:  
EX : SELECT CURDATE() AS 'TODAY',DAYOFMONTH(CURDATE()) As 'Day Month '**

**DAYOFWEEK:  
EX : SELECT CURDATE() AS 'TODAY',DAYOFWEEK(CURDATE()) As 'Day Week'  
  
DAYOFYEAR:  
EX : SELECT CURDATE() AS 'TODAY',DAYOFYEAR(CURDATE()) As 'Day year'  
  
EX :   
  
SELECT CURDATE() AS 'TODAY', DAYNAME(CURDATE()) As 'TODAY NAME' ,**

**DAYOFMONTH(CURDATE()) As 'Day Month ',**

**DAYOFWEEK(CURDATE()) As 'Day Week',DAYOFYEAR(CURDATE()) As 'Day year'  
  
25- MONTH – HOUR – MINUTE -   
  
SELECT id,Bouns,Add\_Day,MONTH(Add\_Day) As 'Month Add Day',**

**HOUR(Add\_Day) As 'HOUR Add Day',**

**MINUTE(Add\_Day) As 'MINUTE Add Day'**

**from functiontext;**

**26- DATE DIFF   
   
EX : SELECT id,Bouns,Add\_Date,DATEDIFF(CURDATE(),Add\_Date)As ' Differnet Date' from functiontext;  
  
EX : SELECT id,Bouns,Add\_Date,CONCAT('Registerd ',DATEDIFF(CURDATE(),Add\_Date),**

**'DAYS ago') As ' Differnet Date'**

**from functiontext;**

**27- LAST DAY  
  
EX : SELECT id,Bouns,Add\_Date,LAST\_DAY(Add\_Date)**

**from functiontext;**

**EX : SELECT id,Bouns,Add\_Date,LAST\_DAY(Add\_Date),DAYNAME(LAST\_DAY(Add\_Date))**

**from functiontext;**