## Experiment 8 mysql\_BUILT IN FUNCTIONS

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Roll No: 22

**AIM**: Implementation of built-in functions

## **Date Functions**

select track_id,date_format(played,"%d-%m-%Y") from played;			
+	+	+	
tr	ack_id   date_format(	played,"%d-%m-%Y")	
+	+	+	
I	0   14-08-2006		
1	1   14-08-2006		
I	2   14-08-2006		
I	3   14-08-2006		
1	4   14-08-2006		
1	5   14-08-2006		
1	6   14-08-2006		
1	7   14-08-2006		
1	0   15-08-2006		
1	1   15-08-2006		
1	2   15-08-2006		
+	+	+	
sele	ect track_id,date_form	at(played,"%W the %D of %M %Y") from played;	
+	+	+	
track_id   date_format(played,"%W the %D of %M %Y")			

```
0 | Monday the 14th of August 2006
    1 | Monday the 14th of August 2006
    2 | Monday the 14th of August 2006
    3 | Monday the 14th of August 2006
    4 | Monday the 14th of August 2006
    5 | Monday the 14th of August 2006
    6 | Monday the 14th of August 2006
    7 | Monday the 14th of August 2006
    0 | Tuesday the 15th of August 2006
    1 | Tuesday the 15th of August 2006
    2 | Tuesday the 15th of August 2006
  -----+
select dayname('2006-08-15');
+----+
| dayname('2006-08-15') |
+----+
| Tuesday
SELECT DAYNAME('2006-08-15'), MONTHNAME('2006-08-15'), YEAR('2006-08-15');
+-----+
| DAYNAME('2006-08-15') | MONTHNAME('2006-08-15') | YEAR('2006-08-15') |
| Tuesday | August |
                                    2006
SELECT DATE_FORMAT(DATE_SUB(CURDATE(), INTERVAL 6 MONTH), '%W the %D of %M %Y') AS 'TWO
```

DAYS Ago';

+	-+
TWO DAYS Ago	
+  Monday the 13th of M	
+	-+
SELECT NOW(), CURTIME	E(), CURDATE();
++	++
NOW()   CURT	IME()   CURDATE()
++	++
2017-09-13 14:58:48	14:58:48   2017-09-13
+	++
String Functions	
select concat(artist_nam	e," & The Heaven ") from artist where artist_name="Miles Davis";
+	+
concat(artist_name," &	ι The Heaven ")
+	+
Miles Davis & The Heav	/en
+	+
select concat("The Heav	ren of ",artist_name) from artist where artist_name="Miles Davis";
+	+
concat("The Heaven of	",artist_name)
+	+
The Heaven of Miles Da	avis
+	+
select replace(artist_nai	me,"Davis","Black") from artist where artist_name="Miles Davis";

```
| replace(artist_name,"Davis","Black") |
| Miles Black
+-----+
select replace(artist_name,"s","z") from artist where artist_name="Miles Davis";
+----+
| replace(artist_name,"s","z") |
+----+
| Milez Daviz
+----+
select insert(artist_name,"7","5","Black") from artist where artist_name="Miles Davis";
+----+
| insert(artist_name,"7","5","Black") |
+----+
| Miles Black
+----+
select insert(artist_name,"7","2","Black") from artist where artist_name="Miles Davis";
+----+
| insert(artist_name,"7","2","Black") |
+----+
| Miles Blackvis
+----+
select insert(artist_name,"7","0"," and Black ") from artist where artist_name="Miles Davis";
+----+
| insert(artist_name,"7","0"," and Black ") |
```

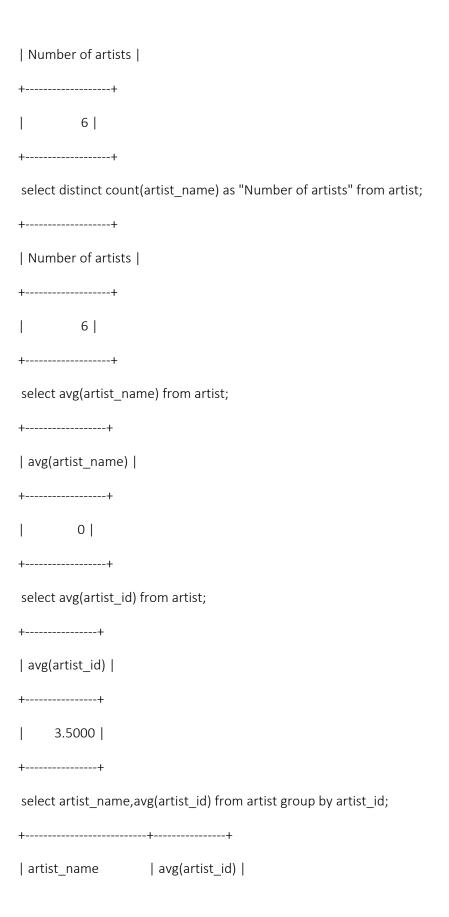
++	
Miles and Black Davis	
++ select insert(artist_name,"5","5","Black") from artist where artist_name="The Stone Roses";	
++	
insert(artist_name,"5","5","Black")	
++	
The Black Roses	
++	
select left(artist_name,"3"),right(artist_name,"5") from artist where artist_name="The Stone Ros	es"
++	
left(artist_name,"3")   right(artist_name,"5")	
++	
The	
+	
select mid(artist_name,5,5) from artist where artist_name="The Stone Roses";	
++	
mid(artist_name,5,5)	
++	
Stone	
select substring(artist_name,"5") from artist where artist_name="The Stone Roses";	
++	
substring(artist_name,"5")	
++	
Stone Roses	

select locate("white",artist_name) from artist where artist_name="The Stone Roses";  ++    locate("white",artist_name)    +
locate("white",artist_name)   ++
++
0
++
select locate("roses", artist_name) from artist where artist_name="The Stone Roses";
++
locate("roses",artist_name)
++
11
++
select length("roses") from artist where artist_name="The Stone Roses";
++
length("roses")
++
5
++
select mid(artist_name,locate("Stone",artist_name),length("Stone")) from artist where artist_name="The Stone Roses";
<del>++</del>
mid(artist_name,locate("Stone",artist_name),length("Stone"))
++
Stone

select lcase(artist_name),ucase(artist_name) from artist where artist_name="The Stone Roses"
++   lcase(artist_name)   ucase(artist_name)
++
the stone roses   THE STONE ROSES
++
select reverse("abcdef");
++
reverse("abcdef")
++
fedcba
++
Numeric Functions
select 6+3;
++
6+3
++
9
++
select 6-3;
++
6-3
++
3
++

```
select 6*3;
+----+
| 6*3 |
+----+
| 18 |
select 6/3;
+----+
| 6/3 |
+----+
| 2.0000 |
+----+
select floor(9.8);
+----+
| floor(9.8) |
+----+
  9 |
select ceiling(9.8);
+----+
| ceiling(9.8) |
+----+
    10 |
+----+
select round(9.8555546);
```

```
+----+
| round(9.8555546) |
+----+
    10 |
+----+
select truncate(8.8564,2);
+----+
| truncate(8.8564,2) |
+----+
8.85
+----+
select truncate(564,-2);
+----+
| truncate(564,-2) |
+----+
     500 |
+----+
select count(*) as "Number of artists" from artist;
+----+
| Number of artists |
+----+
    6 |
select count(artist_name) as "Number of artists" from artist;
+----+
```



```
+----+
| New Order |
                1.0000 |
| Nick Cave & The Bad Seeds | 2.0000 |
| Miles Davis
        1
               3.0000
The Rolling Stones 4.0000
The Stone Roses 5.0000 |
| Kylie Minogue |
                6.0000 |
+-----
select artist_name,round(avg(artist_id),1) from artist group by artist_id;
+-----+
| artist_name | round(avg(artist_id),1) |
+-----+
| New Order | 1.0 |
| Nick Cave & The Bad Seeds | 2.0 |
| Miles Davis | 3.0 |
The Rolling Stones 4.0
| The Stone Roses |
                    5.0
| Kylie Minogue |
                     6.0 |
+----+
select min(artist id), max(artist id) from artist;
+----+
| min(artist_id) | max(artist_id) |
+----+
| 1| 6|
+----+
```

```
select sum(artist_id) from artist;
+----+
| sum(artist_id) |
+----+
| 21 |
+----+
select if(15>1,"yes","no");
+----+
| if(15>1,"yes","no") |
+----+
| yes |
select if(15>20,"yes","no");
+----+
| if(15>20,"yes","no") |
+----+
| no |
+----+
select if(artist_id>2,1,NULL) from artist;
+----+
| if(artist_id>2,1,NULL) |
+----+
       NULL |
      NULL |
     1 |
```

```
1 |
        1 |
        1 |
select count(if(artist_id>2,1,NULL)) from artist;
+----+
| count(if(artist id>2,1,NULL)) |
+----+
           4 |
+----+
select case 2 when 1 then "one" when 2 then "two" end;
| case 2 when 1 then "one" when 2 then "two" end |
| two
+----+
select ifnull(10,"The value is null");
+----+
| ifnull(10,"The value is null") |
+----+
| 10
select * from track;
| artist_id | album_id | time |
| track_id | track_name
```

```
Butterfly
                           6 | 1 | 4.16 |
  10 | Under The Influence Of Love
                                  | 6| 1|3.40|
  11 | I'm So High
                              | 6 | 1 | 3.55 |
  12 | Kids
                                6 | 1 | 4.34 |
update track set time=NULL where track name="Butterfly";
select * from track;
| track_id | track_name
                                | artist id | album id | time |
+-----+
                         | 6| 1| NULL|
| Butterfly
  10 | Under The Influence Of Love
                                 | 6| 1|3.40|
  11 | I'm So High
                              | 6 | 1 | 3.55 |
  12 | Kids
                               6 | 1 | 4.34 |
select track_name,ifnull(time,0) from track;
| track_name
                          | ifnull(time,0) |
+-----+
| Butterfly
                         0.00
| Under The Influence Of Love
                                   3.40 |
                              | I'm So High
                              3.55 |
                         | Kids
                            4.34
```