Práctica No. 3

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Instrucciones: En la consola de MYSQL deberá probar las funciones para el manejo de fechas y cadenas,

Funciones de FECHAS:

1. now();

```
mysql> select now( );
+---------------------+
| now( )              |
+---------------------+
| 2019-09-18 07:13:16 |
+---------------------+
1 row in set (0.00 sec)
```

2. curdate();

```
mysql> select curdate( );
+------------+
| curdate( ) |
+------------+
| 2019-09-18 |
+------------+
1 row in set (0.00 sec)
```

3. curtime();

```
mysql> select curdate( );
+------------+
| curdate( ) |
+------------+
| 2019-09-18 |
+------------+
1 row in set (0.00 sec)
```

4. year(fecha);

```
mysql> select year('2004-02-18');
+-------------------+
| year('2004-02-18') |
+-------------------+
|              2004 |
+-------------------+
1 row in set (0.00 sec)
```

5. month(fecha);

```
mysql> select month('1999-04-19');
+--------------------+
| month('1999-04-19') |
+--------------------+
|                  4 |
+--------------------+
1 row in set (0.00 sec)
```

6. monthname(fecha);

```
mysql> select monthname('2009-12-09');
+------------------------+
| monthname('2009-12-09') |
+------------------------+
| December               |
+------------------------+
1 row in set (0.00 sec)
```

7. quarter(hora);

```
mysql> select quarter('2005-05-25 11:32:37');
+--------------------------------+
| quarter('2005-05-25 11:32:37') |
+--------------------------------+
|                              2 |
+--------------------------------+
1 row in set (0.00 sec)
```

8. hour(hora);

```
mysql> select hour('13:21:1');
+-----------------+
| hour('13:21:1') |
+-----------------+
|              13 |
+-----------------+
1 row in set (0.00 sec)
```

9. minute(hora);

```
mysql> select minute('12:11:49');
+--------------------+
| minute('12:11:49') |
+--------------------+
|                 11 |
+--------------------+
1 row in set (0.00 sec)
```

10. second(hora);

```
mysql> select second('07:28:37');
+--------------------+
| second('07:28:37') |
+--------------------+
|                 37 |
+--------------------+
1 row in set (0.00 sec)
```

11. dayname(fecha);

```
mysql> select dayname('2014-05-22');
+-----------------------+
| dayname('2014-05-22') |
+-----------------------+
| Thursday              |
+-----------------------+
1 row in set (0.00 sec)
```

12. dayofmonth(fecha);

```
mysql> select dayofmonth('2015-11-13');
+--------------------------+
| dayofmonth('2015-11-13') |
+--------------------------+
|                       13 |
+--------------------------+
1 row in set (0.00 sec)
```

13. dayofyear(fecha);

```
mysql> select dayofyear('2018-04-28');
+-------------------------+
| dayofyear('2018-04-28') |
+-------------------------+
|                     118 |
+-------------------------+
1 row in set (0.00 sec)
```

14. dayofweek(fecha);

```
mysql> select dayofweek('2019-02-08');
+-------------------------+
| dayofweek('2019-02-08') |
+-------------------------+
|                       6 |
+-------------------------+
1 row in set (0.00 sec)
```

Funciones de CADENAS
Nota: Dos ejemplos por función.

1. ascii(cadena);

```
mysql> select ascii('casa');
+---------------+
| ascii('casa') |
+---------------+
|            99 |
+---------------+
1 row in set (0.00 sec)

mysql> select ascii('auto');
+---------------+
| ascii('auto') |
+---------------+
|            97 |
+---------------+
1 row in set (0.00 sec)
```

2. char(n);

```
mysql> select char(97);
+----------+
| char(97) |
+----------+
| a        |
+----------+
1 row in set (0.00 sec)

mysql> select char(99);
+----------+
| char(99) |
+----------+
| c        |
+----------+
1 row in set (0.00 sec)
```

3. char(n, m, ...);

```
mysql> select char(49,50,51,52);
+-------------------+
| char(49,50,51,52) |
+-------------------+
| 1234              |
+-------------------+
1 row in set (0.00 sec)

mysql> select char(69,70,71,72);
+-------------------+
| char(69,70,71,72) |
+-------------------+
| EFGH              |
+-------------------+
1 row in set (0.00 sec)
```

4. bin(n);

```
mysql> select bin(121);
+----------+
| bin(121) |
+----------+
| 1111001  |
+----------+
1 row in set (0.00 sec)

mysql> select bin(31);
+---------+
| bin(31) |
+---------+
| 11111   |
+---------+
1 row in set (0.00 sec)
```

5. concat(cadena1, cadena2);

```
mysql> select concat('hola ', 'mundo');
+--------------------------+
| concat('hola ', 'mundo') |
+--------------------------+
| hola mundo               |
+--------------------------+
1 row in set (0.00 sec)

mysql> select concat('bd ', '2cm9');
+-----------------------+
| concat('bd ', '2cm9') |
+-----------------------+
| bd 2cm9               |
+-----------------------+
1 row in set (0.00 sec)
```

6. concat_ws(caracter_separador, cadena1, cadena2);

```
mysql> select concat_ws('/', '1999', '06');
+------------------------------+
| concat_ws('/', '1999', '06') |
+------------------------------+
| 1999/06                      |
+------------------------------+
1 row in set (0.00 sec)

mysql> select concat_ws(' ', 'ing', 'sc');
+-----------------------------+
| concat_ws(' ', 'ing', 'sc') |
+-----------------------------+
| ing sc                      |
+-----------------------------+
1 row in set (0.00 sec)
```

7. hex(n);

```
mysql> select hex(10);
+---------+
| hex(10) |
+---------+
| A       |
+---------+
1 row in set (0.00 sec)

mysql> select hex(255);
+----------+
| hex(255) |
+----------+
| FF       |
+----------+
1 row in set (0.00 sec)
```

8. oct(n);

```
mysql> select oct(16);
+---------+
| oct(16) |
+---------+
| 20      |
+---------+
1 row in set (0.00 sec)

mysql> select oct(80);
+---------+
| oct(80) |
+---------+
| 120     |
+---------+
1 row in set (0.00 sec)
```

9. lower(cadena);

```
mysql> select lower('México');
+-----------------+
| lower('México') |
+-----------------+
| méxico          |
+-----------------+
1 row in set (0.00 sec)

mysql> select lower('ESCOM');
+----------------+
| lower('ESCOM') |
+----------------+
| escom          |
+----------------+
1 row in set (0.00 sec)
```

10. lcase(cadena);

```
mysql> select lcase('IPN');
+--------------+
| lcase('IPN') |
+--------------+
| ipn          |
+--------------+
1 row in set (0.00 sec)

mysql> select lcase('CDMX');
+--------------+
| lcase('CDMX') |
+--------------+
| cdmx          |
+--------------+
1 row in set (0.00 sec)
```

11. upper(cadena);

```
mysql> select upper('xd');
+-------------+
| upper('xd') |
+-------------+
| XD          |
+-------------+
1 row in set (0.00 sec)

mysql> select upper('cecyt');
+----------------+
| upper('cecyt') |
+----------------+
| CECYT          |
+----------------+
1 row in set (0.00 sec)
```

12. ucase(cadena);

```
mysql> select ucase('tank');
+---------------+
| ucase('tank') |
+---------------+
| TANK          |
+---------------+
1 row in set (0.00 sec)

mysql> select ucase('teclado');
+------------------+
| ucase('teclado') |
+------------------+
| TECLADO          |
+------------------+
1 row in set (0.00 sec)
```

13. left(cadena, n);

```
mysql> select left('1234567', 3);
+--------------------+
| left('1234567', 3) |
+--------------------+
| 123                |
+--------------------+
1 row in set (0.00 sec)

mysql> select left('abcdef', 4);
+------------------+
| left('abcdef', 4) |
+------------------+
| abcd             |
+------------------+
1 row in set (0.00 sec)
```

14. right(cadena, n);

```
mysql> select right('html5', 2);
+------------------+
| right('html5', 2) |
+------------------+
| l5               |
+------------------+
1 row in set (0.00 sec)

mysql> select right('bienvenidos', 5);
+------------------------+
| right('bienvenidos', 5) |
+------------------------+
| nidos                  |
+------------------------+
1 row in set (0.00 sec)
```

15. length(cadena);

```
mysql> select length('cadena');
+------------------+
| length('cadena') |
+------------------+
|                6 |
+------------------+
1 row in set (0.00 sec)

mysql> select length('lorem ipsum');
+----------------------+
| length('lorem ipsum') |
+----------------------+
|                   11 |
+----------------------+
1 row in set (0.00 sec)
```

16. ltrim(cadena);

```
mysql> select ltrim('    alumno');
+-------------------+
| ltrim('    alumno') |
+-------------------+
| alumno            |
+-------------------+
1 row in set (0.01 sec)

mysql> select ltrim('      pacman');
+--------------------+
| ltrim('      pacman') |
+--------------------+
| pacman             |
+--------------------+
1 row in set (0.00 sec)
```

17. rtrim(cadena);

```
mysql> select rtrim('el        ');
+------------------+
| rtrim('el        ') |
+------------------+
| el               |
+------------------+
1 row in set (0.00 sec)

mysql> select rtrim('espacio       ');
+----------------------+
| rtrim('espacio       ') |
+----------------------+
| espacio              |
+----------------------+
1 row in set (0.00 sec)
```

18. trim(cadena);

```
mysql> select trim(' aaaaa ');
+----------------+
| trim(' aaaaa ') |
+----------------+
| aaaaa          |
+----------------+
1 row in set (0.00 sec)

mysql> select trim(' vacio ');
+----------------+
| trim(' vacio ') |
+----------------+
| vacio          |
+----------------+
1 row in set (0.01 sec)
```

19. trim(trailing 'prefijo' from 'cadena');

```
mysql> select trim(trailing 'cion' from 'informacion');
+------------------------------------------+
| trim(trailing 'cion' from 'informacion') |
+------------------------------------------+
| informa                                  |
+------------------------------------------+
1 row in set (0.00 sec)

mysql> select trim(trailing 'aza' from 'melaza');
+----------------------------------+
| trim(trailing 'aza' from 'melaza') |
+----------------------------------+
| mel                              |
+----------------------------------+
1 row in set (0.00 sec)
```

20. trim(leading 'prefijo' from 'cadena');

```
mysql> select trim(leading 'pe' from 'pescado');
+-----------------------------------+
| trim(leading 'pe' from 'pescado') |
+-----------------------------------+
| scado                             |
+-----------------------------------+
1 row in set (0.00 sec)

mysql> select trim(leading 'arm' from 'armamento');
+--------------------------------------+
| trim(leading 'arm' from 'armamento') |
+--------------------------------------+
| amento                               |
+--------------------------------------+
1 row in set (0.00 sec)
```

21. trim(both 'prefijo' from 'cadena');

```
mysql> select trim(both 'llo' from 'llorando amarillo');
+------------------------------------------+
| trim(both 'llo' from 'llorando amarillo') |
+------------------------------------------+
| rando amari                              |
+------------------------------------------+
1 row in set (0.00 sec)

mysql> select trim(both 'al' from 'alameda  final');
+---------------------------------------+
| trim(both 'al' from 'alameda  final') |
+---------------------------------------+
| ameda  fin                            |
+---------------------------------------+
1 row in set (0.00 sec)
```

22. trim('prefijo' from 'cadena');

```
mysql> select trim('aca' from 'acabare');
+---------------------------+
| trim('aca' from 'acabare') |
+---------------------------+
| bare                      |
+---------------------------+
1 row in set (0.00 sec)

mysql> select trim('al' from 'almidon');
+--------------------------+
| trim('al' from 'almidon') |
+--------------------------+
| midon                    |
+--------------------------+
1 row in set (0.00 sec)
```

23. repeat(cadena, n);

```
mysql> select repeat('contra', 3);
+---------------------+
| repeat('contra', 3) |
+---------------------+
| contracontracontra  |
+---------------------+
1 row in set (0.00 sec)

mysql> select repeat('oso', 4);
+------------------+
| repeat('oso', 4) |
+------------------+
| osoosoosoosо     |
+------------------+
1 row in set (0.00 sec)
```

24. reverse(cadena);

```
mysql> select reverse('ana maria');
+---------------------+
| reverse('ana maria') |
+---------------------+
| airam ana           |
+---------------------+
1 row in set (0.00 sec)

mysql> select reverse('pedro');
+-----------------+
| reverse('pedro') |
+-----------------+
| ordep           |
+-----------------+
1 row in set (0.00 sec)
```

25. substring(cadena, n);

```
mysql> select substring('monitor', 3);
+-------------------------+
| substring('monitor', 3) |
+-------------------------+
| nitor                   |
+-------------------------+
1 row in set (0.00 sec)

mysql> select substring('trabalenguas', 4);
+------------------------------+
| substring('trabalenguas', 4) |
+------------------------------+
| balenguas                    |
+------------------------------+
1 row in set (0.00 sec)
```

26. substring(cadena, n, m);

```
mysql> select substring('aguamiel', 1, 5);
+-----------------------------+
| substring('aguamiel', 1, 5) |
+-----------------------------+
| aguam                       |
+-----------------------------+
1 row in set (0.00 sec)

mysql> select substring('alejadisimo', 3, 6);
+--------------------------------+
| substring('alejadisimo', 3, 6) |
+--------------------------------+
| ejadis                         |
+--------------------------------+
1 row in set (0.00 sec)
```

27. substr(cadena, n, m);

```
mysql> select substr('cangrejo', 1,3);
+-------------------------+
| substr('cangrejo', 1,3) |
+-------------------------+
| can                     |
+-------------------------+
1 row in set (0.00 sec)

mysql> select substr('medusa', 2,4);
+-----------------------+
| substr('medusa', 2,4) |
+-----------------------+
| edus                  |
+-----------------------+
1 row in set (0.00 sec)
```

28. space(n);

```
mysql> select space(28);
+----------------------------+
| space(28)                  |
+----------------------------+
|                            |
+----------------------------+
1 row in set (0.00 sec)

mysql> select space(3);
+----------+
| space(3) |
+----------+
|          |
+----------+
1 row in set (0.00 sec)
```

29. locate(subcadena, cadena);

```
mysql> select locate('car', 'auto carisimo');
+--------------------------------+
| locate('car', 'auto carisimo') |
+--------------------------------+
|                              6 |
+--------------------------------+
1 row in set (0.00 sec)

mysql> select locate('sup', 'super dude');
+-----------------------------+
| locate('sup', 'super dude') |
+-----------------------------+
|                           1 |
+-----------------------------+
1 row in set (0.00 sec)
```

30. insert(cadena, n, m, nuevacadena);

```
mysql> select insert('pizarron', 2, 4, 'ado');
+---------------------------------+
| insert('pizarron', 2, 4, 'ado') |
+---------------------------------+
| padoron                         |
+---------------------------------+
1 row in set (0.00 sec)

mysql> select insert('sistema oseo', 8, 12, 'inmunologico');
+-----------------------------------------------+
| insert('sistema oseo', 8, 12, 'inmunologico') |
+-----------------------------------------------+
| sistemainmunologico                           |
+-----------------------------------------------+
1 row in set (0.00 sec)
```

31. replace(cadena, de_caracter, por_caracter);

```
mysql> select replace('hola mundo', 'a', 'x');
+--------------------------------+
| replace('hola mundo', 'a', 'x') |
+--------------------------------+
| holx mundo                     |
+--------------------------------+
1 row in set (0.00 sec)

mysql> select replace('jajajaja', 'a', 'e');
+------------------------------+
| replace('jajajaja', 'a', 'e') |
+------------------------------+
| jejejeje                     |
+------------------------------+
1 row in set (0.00 sec)
```