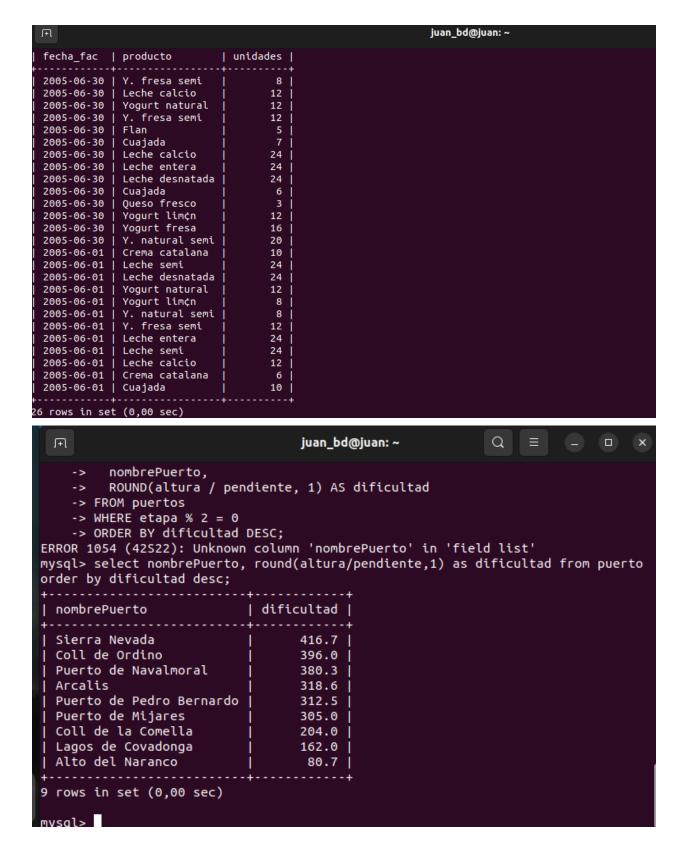


```
dades
                                                                                                                                               28 de abr 10:53
                Terminal
                                                                                                                                              juan_bd@juan: ~
   mysql> INSERT INTO facturas (fecha_fac, producto, unidades) VALUES
           -> ('2005-06-30', 'Y. fresa semi', 8),

-> ('2005-06-30', 'Leche calcio', 12),

-> ('2005-06-30', 'Yogurt natural', 12),

-> ('2005-06-30', 'Y. fresa semi', 12),
           -> ('2005-06-30', 'Flan', 5),
           -> ('2005-06-30', 'Cuajada', 7),
           -> ('2005-06-30', 'Leche calcio', 24),
           -> ('2005-06-30', 'Leche entera', 24),
           -> ('2005-06-30', 'Leche desnatada', 24),
           -> ('2005-06-30', 'Cuajada', 6),
           -> ('2005-06-30', 'Queso fresco', 3),
-> ('2005-06-30', 'Yogurt lim¢n', 12),
           -> ('2005-06-30', 'Yogurt fresa', 16),
           -> ('2005-06-30', 'Y. natural semi', 20),
          -> ('2005-06-30', 'Y. natural semi', 20),
-> ('2005-06-01', 'Crema catalana', 10),
-> ('2005-06-01', 'Leche semi', 24),
-> ('2005-06-01', 'Leche desnatada', 24),
-> ('2005-06-01', 'Yogurt natural', 12),
-> ('2005-06-01', 'Yogurt lim¢n', 8),
-> ('2005-06-01', 'Y. natural semi', 8),
-> ('2005-06-01', 'Y. fresa semi', 12),
-> ('2005-06-01', 'Leche entera', 24),
-> ('2005-06-01', 'Leche semi', 24),
-> ('2005-06-01', 'Leche calcio', 12),
-> ('2005-06-01', 'Crema catalana', 6),
-> ('2005-06-01', 'Cuajada', 10);
rv OK, 26 rows affected (0,01 sec)
   Query OK, 26 rows affected (0,01 sec)
   Records: 26 Duplicates: 0 Warnings: 0
```



```
ſŦ
                               juan_bd@juan: ~
                                                      Q = - 0
   -> FROM etapas
   -> WHERE SQRT(kms) < 13;
Display all 814 possibilities? (y or n)
   -> WHERE SQRT(kms) < 13;
ERROR 1146 (42S02): Table 'Ciclistas.etapas' doesn't exist
mysql> SELECT
      salida,
   ->
        ABS(dorsal_ganador - numetapa) AS diferencia,
        kms
   -> FROM etapa
   -> WHERE SQRT(kms) < 13;
        | diferencia | kms |
| salida
                            9 |
| Valladolid
              0 |
| Granada
                       46 |
                            150
                       7 |
| Benidorm
                             40
                             150
| Benidorm
                       26
                             160
| Santander
                       11 |
| Cangas de Ons |
                        13
                             140
| Segovia
                        18 |
                              52 I
```

```
juan bd@juan: ~
mysql> SELECT
   -> fecha fac,
    -> producto.
    -> CEIL(unidades / 12) AS num_paquetes,
    -> CASE
    -> WHEN unidades % 12 = 0 THEN 0
-> ELSE 12 - (unidades % 12)
    -> END AS hueco_ultimo_paquete
    -> FROM facturas
    -> WHERE unidades < 36
    -> ORDER BY fecha_fac DESC;
| fecha_fac | producto | unidades | num_paquetes | hueco_ultimo_paquete
  ------
| 2005-06-30 | Leche calcio | 12 |
| 2005-06-30 | Y. natural semi | 20 |
| 2005-06-30 | Yogurt fresa | 16 |
                                                  1 |
                                                                                  0
                                                         2
                                                                                  4
                                                        2 |
                                                                                  8
                                       12 |
| 2005-06-30 | Yogurt lim¢n
                                                        1 |
| 2005-06-30 | Queso fresco
                                        3 |
| 6 |
| 2005-06-30 | Leche desnatada | 24 |
| 2005-06-30 | Leche calcio | 24 |
| 2005-06-30 | Cuainda
                                                                                   б
                                                        2
                                                                                  0
                                                        2 |
                                                                                  0
 2005-06-30 | Cuajada
                                                         1 I
                                         5
 2005-06-30 | Flan
                                                          1 |
 2003-06-30 | Y. fresa semi |
2005-06-30 | Yogurt natural |
2005-06-30 | Y. free
                                         12 |
                                                                                   0
                                                          1 |
                                         12
                                                          1 |
  2005-06-30 | Y. fresa semi
                                         8 |
 2005-06-30 | Leche entera
                                         24
                                                          2 |
                                                                                   0
 2005-06-01 | Cuajada
                                         10
                                                          1 |
 2005-06-01 | Crema catalana |
                                         6
                                                                                  б
                                                          1 |
 2005-06-01 | Leche calcio
                                        12 I
                                                          1 I
                                                                                   0
 2005-06-01 | Leche semi
                                         24 |
                                                          2 |
  2005-06-01 | Leche entera
                                        24 |
                                                          2
  2005-06-01 | Y. fresa semi
                                       12
  2005-06-01 | Y. natural semi |
                                        8 |
```

8

4

2005-06-01 | Yogurt lim¢n

```
juan_bd@juan: ~
              ELSE 12 - (unidades % 12)
     -> END AS hueco_ultimo_paquete
     -> FROM facturas
     -> WHERE unidades < 36
     -> ORDER BY fecha_fac DESC;
2005-06-30 | Leche calcio | 12 |

2005-06-30 | Y. natural semi | 20 |

2005-06-30 | Yogurt fresa | 16 |

2005-06-30 | Yogurt lim¢n | 12 |

2005-06-30 | Queso fresco | 3 |

2005-06-30 | Cuajada | 6 |

2005-06-30 | Leche desnatada | 24 |

2005-06-30 | Leche calcio | 24 |
                                                                1 |
                                                                                                       0
                                                                       2 |
                                                                                                       4
                                                                      2
                                                                                                       8 I
                                                                      1 1
                                                                                                       0
                                                                                                       9
                                                                                                       6
                                                                                                       0
                                                                                                       0
                                                  7 |
5 |
  2005-06-30 | Cuajada
                                                                        1
  2005-06-30 | Flan
                                                                         1
  2005-06-30 | Y. fresa semi | 12 |
2005-06-30 | Yogurt natural | 12 |
2005-06-30 | Y. fresa semi | 8 |
2005-06-30 | Leche entera | 24 |
                                                                         1
                                                                                                       0
                                                                         1
                                                                                                       0
  2005-06-01 | Cuajada
                                                 10 |
                                                                         1
                                                                                                       2
                                              6 |
12 |
24 |
24 |
12 |
8 |
8 |
  2005-06-01 | Crema catalana |
                                                                         1
                                                                                                       б
  2005-06-01 | Leche calcio |
2005-06-01 | Leche semi |
2005-06-01 | Leche entera |
                                                                         1
                                                                                                       0
                                                                         2
                                                                                                       0
  2005-06-01 | Y. fresa semi
                                                                                                       0
  2005-06-01 | Y. natural semi |
  2005-06-01 | Yogurt lim¢n |
                                               12 |
24 |
                                                                        1
                                                                                                       4
  2005-06-01 | Yogurt natural |
                                                                        1
                                                                                                       0
  2005-06-01 | Leche desnatada |
                                                                        2
                                                   24
  2005-06-01 | Leche semi
                                                   10 |
  2005-06-01 | Crema catalana |
+------
26 rows in set (0,00 sec)
```

mvsal>

```
juan_bd@juan: ~
Bye
juan_bd@juan:~$ sudo mysql
[sudo] contraseña para juan_bd:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.41-0ubuntu0.22.04.1 (Ubuntu)
Copyright (c) 2000, 2025, Oracle and/or its affiliates.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> create database world
   -> :
Query OK, 1 row affected (0,03 sec)
mysql> create table Paises (Name varchar(30), Code varchar(3), centenarios int, IndepYear
ERROR 1046 (3D000): No database selected
mysql> use world
Database changed
mysql> create table Paises (Name varchar(30), Code varchar(3), centenarios int, IndepYear
Query OK, 0 rows affected (0,21 sec)
mysql> describe Paises;
          | Type | Null | Key | Default | Extra |
| Field
            | varchar(30) | YES |
                                       NULL
| Name
             | varchar(3) | YES
| int | YES
                                        NULL NULL
 Code
 centenarios | int
| IndepYear | int
                            YES |
                                         NULL
4 rows in set (0,00 sec)
mysql>
```

```
juan_bd@juan: ~
                                                                                 Q = - -
  ſŦ
mysql> INSERT INTO Paises (Code, Name, IndepYear) VALUES
    ql> INSERT INTO Paises (Code, Name, I
-> ('CHN', 'China', -1523),
-> ('ETH', 'Ethiopia', -1000),
-> ('JPN', 'Japan', -660),
-> ('DNK', 'Denmark', 800),
-> ('FRA', 'France', 843),
-> ('SWE', 'Sweden', 836),
-> ('SMR', 'San Marino', 885),
-> ('GBR', 'United Kingdom', 1066),
-> ('PRT', 'Portugal', 1143),
-> ('AND', 'Andorra', 1278),
-> ('THA', 'Thailand', 1350),
-> ('ESP', 'Spain', 1492),
-> ('CHE', 'Switzerland', 1499),
-> ('NLD', 'Netherlands', 1581);
ry OK, 14 rows affected (0,02 sec)
Query OK, 14 rows affected (0,02 sec)
Records: 14 Duplicates: 0 Warnings: 0
mysql> select *from Paises;
+----
                       | Code | centenarios | IndepYear |
                       CHN
                                             NULL |
| China
                                                             -1523
l Ethiopia
                       I ETH
                                            NULL I
                                                            -1000 l
                                                 juan_bd@juan: ~
  I+I
 Records: 14 Duplicates: 0 Warnings: 0
 mysql> select *from Paises;
 | Name | Code | centenarios | IndepYear |
                   | CHN |
                                              NULL |
                      ETH |
                                               NULL |
 | Ethiopia
                                                            -1000 l
                                                             -660
800
843
836
                                             NULL
 Japan
                                             NULL
 | Denmark
                                             NULL |
                       FRA
 France
 | Sweden | SWE |
| San Marino | SMR |
| United Kingdom | GBR |
                                             NULL
                                                                885
                                             NULL |
                                                              1066
  | Portugal | PRT |
                                             NULL |
                                                              1143
                        AND
 | Andorra
                                             NULL |
                                                              1278
 Thailand
                         | THA |
                                             NULL |
                                                              1350
                        | ESP
                                              NULL |
 | Spain
                                                              1492
 | Switzerland
                                               NULL |
                         CHE
                                                               1499
 | Netherlands
                       | NLD |
                                               NULL |
                                                               1581
 14 rows in set (0,00 sec)
```

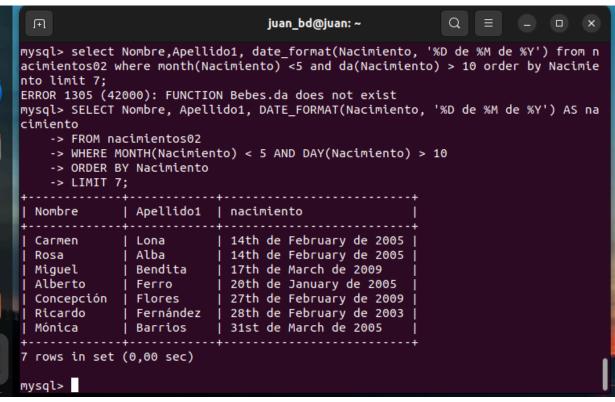
```
juan_bd@juan: ~
                                                      Q = - -
mysql> SELECT
          Name,
          Code,
          FLOOR((YEAR(CURDATE()) - IndepYear) / 100) AS centenarios,
   ->
          IndepYear
   -> FROM Paises
   -> WHERE IndepYear IS NOT NULL
   -> AND FLOOR((YEAR(CURDATE()) - IndepYear) / 100) > 3
   -> ORDER BY centenarios DESC;
               | Code | centenarios | IndepYear |
                               35 |
 China
               | CHN |
                                       -1523 |
                               30
 Ethiopia
               | ETH |
                                        -1000
               | JPN
                                        -660
                               26
 Japan
               DNK
                                         800
 Denmark
                               12
 France
                                         843
               FRA
                               11 |
               SWE
                               11 |
 Sweden
                                         836
              SMR
 San Marino
                               11 |
                                         885
 United Kingdom | GBR
                                9 I
                                         1066
               | PRT
 Portugal
                                         1143
                                 8 |
                                         1278
 Andorra
                AND
                                 7
 Thailand
                 THA
                                 б
                                         1350
                 ECD
                               juan_bd@juan: ~
                                                     Q = - - x
    -> WHERE IndepYear IS NOT NULL
   -> AND FLOOR((YEAR(CURDATE()) - IndepYear) / 100) > 3
    -> ORDER BY centenarios DESC;
               | Code | centenarios | IndepYear |
| China
              | CHN |
                               35
                                        -1523
               | ETH |
| JPN |
| DNK |
                              30
 Ethiopia
                                       -1000
  Japan
                              26 |
                                        -660
  Denmark
                               12
                                        800
                                        843
  France
               FRA
                               11
               SWE
                                        836
  Sweden
                               11 |
               SMR
                                        885
  San Marino
                               11 |
  United Kingdom | GBR
                                9 |
                                        1066
  Portugal
              | PRT
                                8 I
                                        1143
  Andorra
               AND
                                        1278
                | THA
  Thailand
                               6
                                        1350
                | ESP
 Spain
                               5 |
                                        1492
                CHE
                               5 |
| Switzerland
                                        1499
                                4
| Netherlands
              | NLD |
                                        1581
14 rows in set (0,00 sec)
```

mysql>

```
juan bd@juan: ~
                                              6
  I Thailand
                         THA
                                                          1350
                                              5 |
                         ESP
                                                          1492
   Spain
                                              5
                         CHE
   Switzerland
                                                          1499
 | Netherlands
                       I NLD
                                                          1581
 14 rows in set (0,00 sec)
 mysql> use Bebes;
 Reading table information for completion of table and column names
 You can turn off this feature to get a quicker startup with -A
 Database changed
 mysql> create table nacimientos02( Nombre varchar(25), Apellido1 varchar(20), Nac
 imiento date not null);
 Ouery OK, 0 rows affected (1,05 sec)
 mysql> describe nacimientos02;
                                   | Null | Key | Default | Extra |
   Field
                  | Type
                  | varchar(25) | YES
    Nombre
                                                     NULL
    Apellido1
                  | varchar(20)
                                     YES
                                                      NULL
   Nacimiento | date
                                     NO
                                                      NULL
                                           juan_bd@juan: ~
                                                                           Q = - -
9-02-27'),('Mónica','Barrios','2005-03-31'),('Miguel','Bendita','2009-03-17'),('
Ricardo', 'Fernández', '2003-02-28'), ('Rosa', 'Alba', '2005-02-14');
     '>
     '>
     '>
     ->
mysql> insert into nacimientos02(Nombre,Apellido1,Nacimiento) values ('Alberto',
'Ferro','2005-01-20'), ('Carmen','Lona','2005-02-14'),('Concepción','Flores',200 9-02-27'),('Mónica','Barrios','2005-03-31'),('Miguel','Bendita','2009-03-17'),('Ricardo','Fernández','2003-02-28'),('Rosa','Alba','2005-02-14');
mysql> insert into nacimientos02(Nombre,Apellido1,Nacimiento) values ('Alberto',
'Ferro','2005-01-20'), ('Carmen','Lona','2005-02-14'),('Concepción','Flores','2009-02-27'),('Mónica','Barrios','2005-03-31'),('Miguel','Bendita','2009-03-17'),('Ricardo','Fernández','2003-02-28'),('Rosa','Alba','2005-02-14');
Query OK, 7 rows affected (0,94 sec)
Records: 7 Duplicates: 0 Warnings: 0
```

mvsql>

```
juan_bd@juan: ~
Ricardo', 'Fernández', '2003-02-28'), ('Rosa', 'Alba', '2005-02-14');
     '> ^C
mysql> insert into nacimientos02(Nombre, Apellido1, Nacimiento) values ('Alberto',
'Ferro','2005-01-20'), ('Carmen','Lona','2005-02-14'),('Concepción','Flores','20 09-02-27'),('Mónica','Barrios','2005-03-31'),('Miguel','Bendita','2009-03-17'),('Ricardo','Fernández','2003-02-28'),('Rosa','Alba','2005-02-14');
Query OK, 7 rows affected (0,94 sec)
Records: 7 Duplicates: 0 Warnings: 0
mysql> select *from nacimientos02;
                | Apellido1 | Nacimiento |
  Alberto
                             | 2005-01-20 |
              | Ferro
                               2005-02-14 |
2009-02-27 |
               Lona
 Carmen
| Concepción | Flores
                               2005-03-31
             | Barrios
l Mónica
                                2009-03-17
                | Bendita
Miguel
                | Fernández | 2003-02-28
  Ricardo
                | Alba | 2005-02-14
Rosa
7 rows in set (0,00 sec)
mysql>
```



```
Q = - - x
                                 juan_bd@juan: ~
7 rows in set (0,00 sec)
mysql> select Nombre,Apellido1, date_add(nacimiento, interval 18 year) as Mayori
aEdad from nacimientos02 where dayofweek(nacimiento) = 4 limit 2;
Empty set (0,00 sec)
mysql> INSERT INTO nacimientos02 (Nombre, Apellido1, Nacimiento) VALUES
    -> ('Rémulo', 'Fernández', '2009-08-19'),
    -> ('Sandra', 'Barata', '2008-11-26');
Query OK, 2 rows affected (0,02 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> select Nombre, Apellido1, date_add(nacimiento, interval 18 year) as Mayori
aEdad from nacimientos02 where dayofweek(nacimiento) = 4 limit 2;
+----+
| Nombre | Apellido1 | MayoriaEdad |
+-----
| Rémulo | Fernández | 2027-08-19 |
| Sandra | Barata | 2026-11-26 |
2 rows in set (0,01 sec)
mysql>
                                 juan_bd@juan: ~
                                                        Q =
    -> Nombre VARCHAR(50),
          Apellido1 VARCHAR(50),
         Apellido2 VARCHAR(50),
          FechaNac DATE,
    ->
          Provincia CHAR(2)
   -> );
ERROR 1050 (42S01): Table 'nacimientos' already exists
mysql> create table nacimientos03( Nombre varchar(30), Apellido1 varchar(30),Ape
llido2 varchar(30), FechaNac date, Provincia varchar(2));
Query OK, 0 rows affected (0,10 sec)
mysql> describe nacimientos03;
+----+
| Field | Type | Null | Key | Default | Extra |
| Nombre | varchar(30) | YES | | NULL
| Apellido1 | varchar(30) | YES | NULL
| Apellido2 | varchar(30) | YES | NULL
| FechaNac | date | YES | NULL
| Provincia | varchar(2) | YES | NULL
5 rows in set (0,00 sec)
```

mysql>

```
ſŦ
                            juan_bd@juan: ~
                                                 Q = - -
Records: 14 Duplicates: 0 Warnings: 0
mysql> select *from nacimientos03;
l Nombre
           | Apellido1 | Apellido2 | FechaNac | Provincia |
| Concepción | Flores | Cruz | 2009-02-27 | SA
| Felipe | Fernández | Gómez | 2007-11-13 | S
                                 | 2009-02-27 | SA
| Fernando
          | Fernández | Fernández | 2005-01-02 | AL
          | Rémulo
| Isabel
 Roberto
 Sandra
Raquel
| Ricardo
           Miguel
| Manuel
| Daniel
| Elisa
                    | Martínez | 2005-01-20 | BA
| Alberto
          | Ferro
14 rows in set (0,00 sec)
mysql>
```

```
juan_bd@juan: ~
 Elisa
              Alonso
                          López
                                       | 2008-01-30 | GR
            Ferro
| Alberto
                          | Martínez | 2005-01-20 | BA
14 rows in set (0,00 sec)
mysql> SELECT *
    -> FROM nacimientos
    -> WHERE CHAR_LENGTH(CONCAT(Nombre, Apellido1, Apellido2)) > 20;
Empty set (0,00 sec)
mysql> select *from nacimientos03 where varchar length(concat(Nombre,Apellido1,
pellido2)) > 20;
ERROR 1305 (42000): FUNCTION Bebes.varchar_length does not exist
mysql> select *from nacimientos03 where char_length(concat(Nombre,Apellido1,Ape
lido2)) > 20;
| Nombre | Apellido1 | Apellido2 | FechaNac | Provincia |
| Fernando | Fernández | Fernández | 2005-01-02 | AL
| Ricardo | Fernández | Martín | 2003-02-28 | VA
2 rows in set (0,00 sec)
mysql>
```

```
Q = - -
                                  juan_bd@juan: ~
pellido2)) > 20;
ERROR 1305 (42000): FUNCTION Bebes.varchar_length does not exist
mysql> select *from nacimientos03 where char length(concat(Nombre,Apellido1,Apel
lido2)) > 20;
| Nombre | Apellido1 | Apellido2 | FechaNac | Provincia |
| Fernando | Fernández | Fernández | 2005-01-02 | AL
| Ricardo | Fernández | Martín | 2003-02-28 | VA
2 rows in set (0,00 sec)
mysql> SELECT CONCAT(LEFT(Nombre, 1), ' ', Apellido1) AS Nacido
   -> FROM nacimientos03
    -> WHERE LOCATE('b', Apellido1) > 2;
| Nacido
| R Robles |
| M Robles |
2 rows in set (0,00 sec)
mysql>
                                 juan_bd@juan: ~
                                                          Q = - -
mysql> SELECT
   -> SUBSTRING INDEX(SUBSTRING INDEX(CONCAT(Nombre, ' ', Apellido1, ' ', Ape
llido2), 'e', 2), <sup>'</sup>e', -1) AS nacido
   -> FROM nacimientos03
    -> WHERE LENGTH(CONCAT(Nombre, Apellido1, Apellido2))
            - LENGTH(REPLACE(CONCAT(Nombre, Apellido1, Apellido2), 'e', '')) >=
2;
| nacido
 pción Flor
 lip
| rnando F
| rnánd
| l Alonso Lóp
| rto Barata Sánch
| l Robl
 rnánd
 lΒ
 l Robl
 l Lóp
 rto F
```