

```
mysql> insert into person values('10','sam','banglore');insert into person value
s('20','shaan','coorg');insert into person values('30','sakshi','mumbai');insert
into person values('40','rajath','mysore');insert into person values('50','tanya',
'delhi');
Query OK, 1 row affected (0.21 sec)

Query OK, 1 row affected (0.19 sec)

Query OK, 1 row affected (0.14 sec)

Query OK, 1 row affected (0.14 sec)

Query OK, 1 row affected (0.07 sec)

mysql> select * from person;
+-----+-----+-----+
| driverid | name | address |
+-----+-----+-----+
| 10 | sam | banglore |
| 20 | shaan | coorg |
| 30 | sakshi | mumbai |
| 40 | rajath | mysore |
| 50 | tanya | delhi |
+-----+-----+-----+
5 rows in set (0.00 sec)

mysql>
```

Database changed

```
MariaDB [insurance]> CREATE TABLE OWNS (driverid varchar(30),REGNO VARCHAR(20),
-> FOREIGN KEY (driverid) REFERENCES Person(driverid),
-> FOREIGN KEY (REGNO) REFERENCES CAR(REGNO)
-> );
ERROR 1005 (HY000): Can't create table `insurance`.`OWNS` (errno: 150 "Foreign key constraint is
incorrectly formed")
MariaDB [insurance]> CREATE TABLE OWNS (driverid varchar(30),REGNO VARCHAR(20),
-> FOREIGN KEY (driverid) REFERENCES person(driverid),
-> FOREIGN KEY (REGNO) REFERENCES CAR(REGNO)
-> );
Query OK, 0 rows affected (0.129 sec)

MariaDB [insurance]> insert into OWNS VALUES('A01','KA052250');
Query OK, 1 row affected (0.193 sec)

MariaDB [insurance]> insert into OWNS VALUES('A02','KA053408');
Query OK, 1 row affected (0.002 sec)

MariaDB [insurance]> insert into OWNS VALUES('A03','KA031181');
Query OK, 1 row affected (0.004 sec)

MariaDB [insurance]> insert into OWNS VALUES('A04','KA095477');
Query OK, 1 row affected (0.002 sec)

MariaDB [insurance]> insert into OWNS VALUES('A05','KA041702');
Query OK, 1 row affected (0.008 sec)

MariaDB [insurance]> insert into OWNS VALUES('A01','KA052250');
Query OK, 1 row affected (0.003 sec)
```

```
MariaDB [insurance]>
MariaDB [insurance]> Create table participated(driverid varchar(30),REGNO VARCHAR(20),REPORT_NO
INTEGER,damage_amount integer,PRIMARY KEY (damage_amount),
-> FOREIGN KEY (driverid) REFERENCES person(driverid),
-> FOREIGN KEY (REGNO) REFERENCES CAR(REGNO),
-> FOREIGN KEY (REPORT_NO) REFERENCES ACCIDENT(REPORT_NO));
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to y
our MariaDB server version for the right syntax to use near '_amount),
FOREIGN KEY (driverid) REFERENCES person(driverid),
FOREIGN KEY (RE... at line 1
MariaDB [insurance]>
MariaDB [insurance]>
MariaDB [insurance]>
MariaDB [insurance]> Create table participated(driverid varchar(30),REGNO VARCHAR(20),REPORT_NO
INTEGER,damage_amount integer,PRIMARY KEY (damage_amount),
-> FOREIGN KEY (driverid) REFERENCES person(driverid),
-> FOREIGN KEY (REGNO) REFERENCES CAR(REGNO),
-> FOREIGN KEY (REPORT_NO) REFERENCES ACCIDENT(REPORT_NO));
Query OK, 0 rows affected (0.202 sec)

MariaDB [insurance]>
MariaDB [insurance]>
MariaDB [insurance]>
MariaDB [insurance]> insert into participated values('A01','KA052250',11,10000);
Query OK, 1 row affected (0.210 sec)

MariaDB [insurance]> insert into participated values('A02','KA053408',12,50000);
Query OK, 1 row affected (0.002 sec)

MariaDB [insurance]> insert into participated values('A03','KA095477',13,25000);
Query OK, 1 row affected (0.017 sec)

MariaDB [insurance]> insert into participated values('A04','KA031181',14,3000);
Query OK, 1 row affected (0.002 sec)

MariaDB [insurance]> insert into participated values('A05','KA041702',15,5000);
Query OK, 1 row affected (0.003 sec)
```

12:35 PM | 4.1KB/s ☀️

Report issues at <https://termux.com/issues>

```
$ mysql
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 4
Server version: 10.5.8-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> use insurance;
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
MariaDB [insurance]> select * from person
-> select * from person;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to y
our MariaDB server version for the right syntax to use near 'select * from person' at line 2
MariaDB [insurance]>
MariaDB [insurance]> select * from person;
+-----+-----+
| driverid | name      | address          |
+-----+-----+
| A01      | richard   | srinivasnagar   |
| A02      | pradeep    | rajajinagar     |
| A03      | smith      | ashoknagar     |
| A04      | venu       | NR colony       |
| A05      | Jhon       | hanumanthnagar |
+-----+-----+
5 rows in set (0.029 sec)

MariaDB [insurance]> select * from CAR;
+-----+-----+
| REGNO  | MODEL     | YEAR           |
+-----+-----+
| KA031181 | launcher | 1957          |
| KA041702 | audi     | 2005          |
| KA052250 | indica   | 1990          |
| KA053408 | honda    | 2008          |
| KA095477 | toyota   | 1998          |
+-----+-----+
5 rows in set (0.002 sec)

MariaDB [insurance]> SELECT * FROM ACCIDENT;
+-----+-----+
| REPORT_NO | ACC_DATE   | LOCATION        |
+-----+-----+
| 11        | 2003-01-01 | mysore road    |
| 12        | 2004-02-02 | South end circle|
| 13        | 2003-01-21 | bull temple road|
| 14        | 2008-02-17 | mysore road    |
| 15        | 2005-03-04 | mysore road    |
+-----+-----+
5 rows in set (0.002 sec)

MariaDB [insurance]> SELECT * FROM OWNS;
+-----+-----+
| driverid | REGNO    |
+-----+-----+
| A01      | KA052250  |
| A02      | KA053408  |
| A03      | KA031181  |
| A04      | KA095477  |
| A05      | KA041702  |
| A01      | KA052250  |
+-----+-----+
6 rows in set (0.002 sec)

MariaDB [insurance]> SELECT * FROM PARTICIPATED;
ERROR 1146 (42S02): Table 'insurance.PARTICIPATED' doesn't exist
MariaDB [insurance]>
MariaDB [insurance]> SELECT * FROM participated;
+-----+-----+
| driverid | REGNO    | REPORT_NO | damage_amount |
+-----+-----+
| A04      | KA031181 | 14        | 3000          |
| A05      | KA041702 | 15        | 5000          |
| A01      | KA052250 | 11        | 10000         |
| A03      | KA095477 | 13        | 25000         |
| A02      | KA053408 | 12        | 50000         |
+-----+-----+
5 rows in set (0.004 sec)

MariaDB [insurance]>
```

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```
MariaDB [insurance]>
MariaDB [insurance]> UPDATE participated SET damage_amount=25000 WHERE REPORT_NO=12;
Query OK, 1 row affected (0.005 sec)
Rows matched: 1  Changed: 1  Warnings: 0

MariaDB [insurance]> select * from participated;
+-----+-----+-----+-----+
| driverid | REGNO   | REPORT_NO | damage_amount |
+-----+-----+-----+-----+
| A01      | KA052250 |      11 |      10000 |
| A02      | KA053408 |      12 |      25000 |
| A03      | KA095477 |      13 |      25000 |
| A04      | KA031181 |      14 |       3000 |
| A05      | KA041702 |      15 |       5000 |
+-----+-----+-----+-----+
5 rows in set (0.002 sec)

MariaDB [insurance]> █
```

```
|    6 | 2005-07-09 | richmondroad |
|   11 | 2003-01-01 | mysore road |
|   12 | 2004-02-02 | South end circle |
|   13 | 2003-01-21 | bull temple road |
|   14 | 2008-02-17 | mysore road |
|   15 | 2005-03-04 | mysore road |
+-----+-----+-----+
6 rows in set (0.035 sec)
```

```
MariaDB [insurance]> select count(year)
-> from CAR
-> WHERE year=2008;
+-----+
| count(year) |
+-----+
|          1 |
+-----+
1 row in set (0.182 sec)
```

```
1 row in set (0.182 sec)

MariaDB [insurance]> select count(model)
-> from CAR
-> WHERE MODEL='INDICA';
+-----+
| count(model) |
+-----+
|          1 |
+-----+
1 row in set (0.004 sec)

MariaDB [insurance]>
```

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```
MariaDB [banking_enterprice]> Create table branch (branchname varchar(50), branchcity varchar (50),assets integer,PRIMARY KEY(branchname));
Query OK, 0 rows affected (0.020 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES
-> ('SBIchamrajpet','bangalore',50000);
Query OK, 1 row affected (0.008 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES('SBIresidencyroad ','bangalore',10000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES
-> ('SBIshivajiroad','bombay',20000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES
-> ('SBIparliamentroad ','delhi',10000);
Query OK, 1 row affected (0.006 sec)

MariaDB [banking_enterprice]> INSERT INTO branch VALUES
-> ('SBIjantarmandir','delhi',20000);
Query OK, 1 row affected (0.006 sec)
```

```

MariaDB [banking_enterprice]> Create table bankaccount(accno integer,branchname VARCHAR(50),balance integer,
-> PRIMARY KEY(accno),
-> FOREIGN KEY (branchname) REFERENCES branch(branchname));
Query OK, 0 rows affected (0.027 sec)

MariaDB [banking_enterprice]>
MariaDB [banking_enterprice]> insert into bankaccount values(1,'SBIchamrajpet',2000);
Query OK, 1 row affected (0.010 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(2,'SBIresidencyroad',5000);
Query OK, 1 row affected (0.004 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(3,'SBIshivajiroad',6000);
Query OK, 1 row affected (0.009 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(4,'SBIparliamentroad',9000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(5,'SBIjantarmantar',8000);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(6,'SBIshivajiroad',4000);
Query OK, 1 row affected (0.005 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(8,'SBIresidencyroad',4000);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(9,'SBIparliamentroad',3000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(10,'SBIresidencyroad',5000);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> insert into bankaccount values(11,'SBIjantarmantar',2000);

```

```

MariaDB [banking_enterprice]> create table bankcustomer(customername varchar(30),customerstreet
varchar(30),customercity varchar(30),
-> PRIMARY KEY (customername)
-> );
Query OK, 0 rows affected (0.025 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('avinash','bullocktempleroad','bangalore');
Query OK, 1 row affected (0.015 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('dinesh','bannergattaroad','bangalore');
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('mohan','nationalcollegeroad','bangalore');
Query OK, 1 row affected (0.005 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('nikil','akbarroad','delhi');
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into bankcustomer values('ravi','pritvirajroad','delhi');
Query OK, 1 row affected (0.007 sec)

```

```

MariaDB [banking_enterprice]> CREATE TABLE depositor
-> (customername varchar(30),
-> accno int,
-> FOREIGN KEY (customername) REFERENCES bankcustomer(customername),
-> FOREIGN KEY (accno) REFERENCES bankaccount(accno));
Query OK, 0 rows affected (0.021 sec)

MariaDB [banking_enterprice]>
MariaDB [banking_enterprice]> insert into depositor values('avinesh',1);
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`banking_enterprice`.`depositor`, CONSTRAINT `depositor_ibfk_1` FOREIGN KEY (`customername`) REFERENCES `bankcustomer` (`customername`))
MariaDB [banking_enterprice]> insert into depositor values('dinesh',2);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into depositor values('nikil',4);
Query OK, 1 row affected (0.015 sec)

MariaDB [banking_enterprice]> insert into depositor values('ravi',5);
Query OK, 1 row affected (0.006 sec)

MariaDB [banking_enterprice]> insert into depositor values('avinash',8);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into depositor values('nikil',9);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into depositor values('dinesh',10);
Query OK, 1 row affected (0.003 sec)

MariaDB [banking_enterprice]> insert into depositor values('nikil',11);
Query OK, 1 row affected (0.012 sec)

MariaDB [banking_enterprice]> select * from depositor;
+-----+-----+
| customername | accno |
+-----+-----+
| dinesh      |    2 |
| nikil       |    4 |
| ravi        |    5 |
| avinash     |    8 |
| nikil       |    9 |
| dinesh      |   10 |
| nikil       |   11 |
+-----+-----+
7 rows in set (0.053 sec)

```

```
MariaDB [banking_enterprice]> CREATE TABLE borrower
-> (customername varchar(30),loannumber int,
-> PRIMARY KEY(customername),
-> FOREIGN KEY (loannumber) REFERENCES LOAN(loannumber)
-> );
Query OK, 0 rows affected (0.044 sec)

MariaDB [banking_enterprice]> Insert into borrower values('avinash',1);
Query OK, 1 row affected (0.011 sec)

MariaDB [banking_enterprice]> Insert into borrower values('dinesh',2);
Query OK, 1 row affected (0.004 sec)

MariaDB [banking_enterprice]> Insert into borrower values('ravi',3);
Query OK, 1 row affected (0.010 sec)

MariaDB [banking_enterprice]> Insert into borrower values('nikil',4);
Query OK, 1 row affected (0.002 sec)

MariaDB [banking_enterprice]> Insert into borrower values('mohan',5);
Query OK, 1 row affected (0.004 sec)
```

```

Database changed
MariaDB [banking_enterprice]> SELECT * FROM BRANCH;
ERROR 1146 (42S02): Table 'banking_enterprice.BRANCH' doesn't exist
MariaDB [banking_enterprice]> SELECT * FROM branch;
+-----+-----+-----+
| branchname | branchcity | assets |
+-----+-----+-----+
| SBIChamrajpet | bangalore | 50000 |
| SBIjantarmantar | delhi | 20000 |
| SBIparliamentroad | delhi | 10000 |
| SBIresidencyroad | bangalore | 10000 |
| SBIshivajiroad | bombay | 20000 |
+-----+-----+-----+
5 rows in set (0.034 sec)

MariaDB [banking_enterprice]> select * from bankaccount;
+-----+-----+-----+
| accno | branchname | balance |
+-----+-----+-----+
| 1 | SBIChamrajpet | 2000 |
| 2 | SBIresidencyroad | 5000 |
| 3 | SBIshivajiroad | 6000 |
| 4 | SBIparliamentroad | 9000 |
| 5 | SBIjantarmantar | 8000 |
| 6 | SBIshivajiroad | 4000 |
| 8 | SBIresidencyroad | 4000 |
| 9 | SBIparliamentroad | 3000 |
| 10 | SBIresidencyroad | 5000 |
| 11 | SBIjantarmantar | 2000 |
+-----+-----+-----+
10 rows in set (0.002 sec)

MariaDB [banking_enterprice]> select * from bankcustomer;
+-----+-----+-----+
| customername | customerstreet | customercity |
+-----+-----+-----+
| avinash | bulltempleroad | bangalore |
| dinesh | bannergattaroad | bangalore |
| mohan | nationalcollegeroad | bangalore |
| nikil | akbarroad | delhi |
| ravi | pritvirajroad | delhi |
+-----+-----+-----+
5 rows in set (0.002 sec)

```

```
MariaDB [banking_enterprice]> select * from depositor;
+-----+-----+
| customername | accno |
+-----+-----+
| dinesh      |    2 |
| nikil       |    4 |
| ravi        |    5 |
| avinash     |    8 |
| nikil       |    9 |
| dinesh      |   10 |
| nikil       |   11 |
+-----+-----+
7 rows in set (0.002 sec)
```

```
MariaDB [banking_enterprice]> select * from LOAN;
+-----+-----+-----+
| loannumber | branchname   | amount |
+-----+-----+-----+
|      1 | SBIchamrajpet | 1000 |
|      2 | SBIresidencyroad | 2000 |
|      3 | SBIshivajiroad | 3000 |
|      4 | SBIparliamentroad | 4000 |
|      5 | SBIjantarmantar | 5000 |
+-----+-----+-----+
5 rows in set (0.003 sec)
```

```
MariaDB [banking_enterprice]> SELECT * FROM borrower;
+-----+-----+
| customername | loannumber |
+-----+-----+
| avinash     |    1 |
| dinesh      |    2 |
| ravi        |    3 |
| nikil       |    4 |
| mohan       |    5 |
+-----+-----+
5 rows in set (0.003 sec)
```

```
MariaDB [banking_enterprice]> select C.customername
-> from depositor C
-> WHERE EXISTS(
-> SELECT D.customername,count(D.customername)
-> from borrower D, bankaccount BA
-> WHERE
-> D.loannumber=BA.accno AND
-> C.customername=D.customername AND
-> BA.branchname='SBIresidencyroad'
-> group by D.customername
-> HAVING COUNT(D.customername)>=2;
Empty set (0.142 sec)

MariaDB [banking_enterprice]>
```

```
+-----+
|   TO | SBIresidencyroad |      5000 |
|   11 | SBIjantarmantar |      2000 |
+-----+
8 rows in set (0.002 sec)

MariaDB [banking_enterprice]>
MariaDB [banking_enterprice]> select BC.customername from depositor BC WHERE NOT EXISTS( SELECT
branchname from branch WHERE branchcity='delhi');
Empty set (0.162 sec)
```

```
MariaDB [banking_enterprice]>
MariaDB [banking_enterprice]> DELETE FROM bankaccount WHERE branchname IN(SELECT branchname FROM
branch WHERE branchcity='bombay');
Query OK, 2 rows affected (0.122 sec)

MariaDB [banking_enterprice]> select * from bankaccount;
+-----+-----+-----+
| accno | branchname      | balance |
+-----+-----+-----+
|    1  | SBIchamrajpet   |    2000 |
|    2  | SBIresidencyroad |    5000 |
|    4  | SBIparliamentroad|    9000 |
|    5  | SBIjantarmantar  |    8000 |
|    8  | SBIresidencyroad |    4000 |
|    9  | SBIparliamentroad|    3000 |
|   10  | SBIresidencyroad |    5000 |
|   11  | SBIjantarmantar  |    2000 |
+-----+-----+-----+
8 rows in set (0.002 sec)

MariaDB [banking_enterprice]>
```

```
MariaDB [supplier]> create table SUPPLIERS
-> (
-> sid integer,
-> sname varchar(30),
-> address varchar(30),
-> PRIMARY KEY(sid)
-> );
Query OK, 0 rows affected (0.277 sec)

MariaDB [supplier]>
MariaDB [supplier]> CREATE TABLE PARTS
-> (
-> pid integer,
-> pname varchar(30),
-> color varchar(30),
-> PRIMARY KEY(pid)
-> );
Query OK, 0 rows affected (0.025 sec)

MariaDB [supplier]> create table CATALOGUE
-> (
-> sid integer,
-> pid integer,
-> cost VARCHAR(30),
-> FOREIGN KEY (sid) REFERENCES SUPPLIERS(sid),
-> FOREIGN KEY (pid) REFERENCES PARTS(pid)
-> );
Query OK, 0 rows affected (0.023 sec)

MariaDB [supplier]> insert into SUPPLIERS VALUES(10001,'Acmewidget','bangalore');
Query OK, 1 row affected (0.026 sec)

MariaDB [supplier]> insert into SUPPLIERS VALUES(10002,'jhons','kolkata');
Query OK, 1 row affected (0.009 sec)

MariaDB [supplier]> insert into SUPPLIERS VALUES(10003,'vimal','mumbai');
Query OK, 1 row affected (0.002 sec)
```

```

MariaDB [supplier]> insert into SUPPLIERS VALUES(10002,'jhons','kolkata');
Query OK, 1 row affected (0.009 sec)

MariaDB [supplier]> insert into SUPPLIERS VALUES(10003,'vimal','mumbai');
Query OK, 1 row affected (0.002 sec)

MariaDB [supplier]> insert into SUPPLIERS VALUES(10004,'reliance','delhi');
Query OK, 1 row affected (0.008 sec)

MariaDB [supplier]> insert into PARTS VALUES(20001,'book','red');
Query OK, 1 row affected (0.015 sec)

MariaDB [supplier]> insert into PARTS VALUES(20002,'pen','red');
Query OK, 1 row affected (0.006 sec)

MariaDB [supplier]> insert into PARTS VALUES(20003,'pencil','green');
Query OK, 1 row affected (0.003 sec)

MariaDB [supplier]> insert into PARTS VALUES(20004,'mobile','green');
Query OK, 1 row affected (0.002 sec)

MariaDB [supplier]> insert into PARTS VALUES(20005,'charger','black');
Query OK, 1 row affected (0.004 sec)

```

```

Query OK, 1 row affected (0.002 sec)

MariaDB [supplier]> insert into PARTS VALUES(20005,'charger','black');
Query OK, 1 row affected (0.004 sec)

MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20001,10);
Query OK, 1 row affected (0.033 sec)

MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20002,10);
Query OK, 1 row affected (0.025 sec)

MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20003,30);
Query OK, 1 row affected (0.084 sec)

MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20004,10);
Query OK, 1 row affected (0.025 sec)

MariaDB [supplier]> insert into CATALOGUE VALUES(10001,20005,10);
Query OK, 1 row affected (0.037 sec)

MariaDB [supplier]> insert into CATALOGUE VALUES(10002,20001,10);
Query OK, 1 row affected (0.025 sec)

MariaDB [supplier]> insert into CATALOGUE VALUES(10002,20002,20);
Query OK, 1 row affected (0.024 sec)

MariaDB [supplier]> insert into CATALOGUE VALUES(10003,20003,30);
Query OK, 1 row affected (0.024 sec)

MariaDB [supplier]> insert into CATALOGUE VALUES(10004,20003,40);
Query OK, 1 row affected (0.046 sec)

MariaDB [supplier]> select * from SUPPLIERS;
+-----+-----+-----+
| sid | sname   | address |
+-----+-----+-----+
| 10001 | Acmewidget | bangalore |
| 10002 | jhons     | kolkata  |
| 10003 | vimal     | mumbai   |
| 10004 | reliance   | delhi    |
+-----+-----+-----+
4 rows in set (0.002 sec)

MariaDB [supplier]> SELECT * FROM PARTS;

```

```
MariaDB [supplier]> SELECT * FROM PARTS;
+-----+-----+-----+
| pid  | pname   | color  |
+-----+-----+-----+
| 20001 | book    | red    |
| 20002 | pen     | red    |
| 20003 | pencil  | green  |
| 20004 | mobile  | green  |
| 20005 | charger | black  |
+-----+-----+-----+
5 rows in set (0.002 sec)
```

```
MariaDB [supplier]> SELECT * FROM CATALOGUE;
+-----+-----+-----+
| sid  | pid    | cost  |
+-----+-----+-----+
| 10001 | 20001 | 10    |
| 10001 | 20002 | 10    |
| 10001 | 20003 | 30    |
| 10001 | 20004 | 10    |
| 10001 | 20005 | 10    |
| 10002 | 20001 | 10    |
| 10002 | 20002 | 20    |
| 10003 | 20003 | 30    |
| 10004 | 20003 | 40    |
+-----+-----+-----+
9 rows in set (0.002 sec)
```

```
MariaDB [supplier]> SELECT pname FROM PARTS,CATALOGUE WHERE CATALOGUE.pid=PARTS.pid AND CATALOGUE.sid IS NOT NU  
LL;  
+-----+  
| pname |  
+-----+  
| book |  
| pen |  
| pencil |  
| mobile |  
| charger |  
| book |  
| pen |  
| pencil |  
| pencil |  
+-----+  
9 rows in set (0.047 sec)
```

```
MariaDB [supplier]> SELECT S.sname FROM SUPPLIERS S WHERE NOT EXISTS((SELECT P.pid FROM PARTS P ) EXCEPT (SELEC  
T C.pid FROM CATALOGUE C WHERE C.sid = S.sid));  
+-----+  
| sname |  
+-----+  
| Acmewidget |  
+-----+  
1 row in set (0.029 sec)  
  
MariaDB [supplier]> SELECT S.sname FROM SUPPLIERS S WHERE NOT EXISTS (( SELECT P.pid FROM PARTS P WHERE P.col  
r = 'Red') EXCEPT ( SELECT C.pid FROM CATALOGUE C, PARTS P WHERE C.sid = S.sid AND C.pid = P.pid AND P.color =  
'Red' ));  
+-----+  
| sname |  
+-----+  
| Acmewidget |  
| jhons |  
+-----+  
2 rows in set (0.017 sec)
```

```

MariaDB [supplier]> SELECT P.pname FROM PARTS P, CATALOGUE C, SUPPLIERS S WHERE P.pid = C.pid AND C.sid = S.sid
AND S.sname = 'Acmewidget' AND NOT EXISTS ( SELECT *FROM CATALOGUE C1,SUPPLIERS S1 WHERE P.pid = C1.pid AND C1
.sid = S1.sid AND S1.sname<>'Acmewidget');
+-----+
| pname |
+-----+
| mobile |
| charger |
+-----+
2 rows in set (0.003 sec)

MariaDB [supplier]> SELECT DISTINCT C.sid FROM CATALOGUE C WHERE C.cost > ( SELECT AVG (C1.cost) FROM CATALOGUE
C1 WHERE C1.pid = C.pid );
+-----+
| sid |
+-----+
| 10002 |
| 10004 |
+-----+
2 rows in set (0.021 sec)

```

```

MariaDB [supplier]> SELECT P.pid, S.sname FROM PARTS P, SUPPLIERS S, CATALOGUE C WHERE C.pid = P.pid AND C.sid
= S.sid AND C.cost = (SELECT MAX (C1.cost) FROM CATALOGUE C1 WHERE C1.pid = P.pid);
ERROR 1630 (42000): FUNCTION supplier.MAX does not exist. Check the 'Function Name Parsing and Resolution' sect
ion in the Reference Manual
MariaDB [supplier]>
MariaDB [supplier]> SELECT P.pid, S.sname FROM PARTS P, SUPPLIERS S, CATALOGUE C WHERE C.pid = P.pid AND C.sid
= S.sid AND C.cost = (SELECT MAX(C1.cost) FROM CATALOGUE C1 WHERE C1.pid = P.pid);
+-----+-----+
| pid | sname |
+-----+-----+
| 20001 | Acmewidget |
| 20004 | Acmewidget |
| 20005 | Acmewidget |
| 20001 | jhons |
| 20002 | jhons |
| 20003 | reliance |
+-----+-----+
6 rows in set (0.202 sec)

MariaDB [supplier]> █

```

```
MariaDB [studentfaculty]> create table student
-> (
-> snum integer,
-> sname varchar(30),
-> major varchar(30),
-> lvl varchar(30),
-> age integer,
-> PRIMARY KEY(snum)
-> );
Query OK, 0 rows affected (0.102 sec)

MariaDB [studentfaculty]> create table class
-> (
-> cname varchar(30),
-> meets_at time,
-> room varchar(30),
-> fid integer,
-> PRIMARY KEY(fid,cname)
-> );
Query OK, 0 rows affected (0.252 sec)

MariaDB [studentfaculty]>
MariaDB [studentfaculty]> create table enrolled
-> (
-> snum integer,
-> cname varchar(30),
-> FOREIGN KEY(snum) REFERENCES student(snum)
-> );
Query OK, 0 rows affected (0.191 sec)

MariaDB [studentfaculty]> create table faculty
-> (
-> fid integer,
-> fname varchar(30),
-> deptid integer,
-> FOREIGN KEY (fid) REFERENCES class(fid)
-> );
Query OK, 0 rows affected (0.030 sec)

MariaDB [studentfaculty]>
MariaDB [studentfaculty]> INSERT INTO student VALUES(1,'jhon','CS','Sr',19);
Query OK, 1 row affected (0.227 sec)

MariaDB [studentfaculty]> INSERT INTO student VALUES(2,'smith','CS','Jr',20);
Query OK, 1 row affected (0.002 sec)

MariaDB [studentfaculty]> INSERT INTO student VALUES(3,'jacob','CV','Sr',20);
Query OK, 1 row affected (0.014 sec)

MariaDB [studentfaculty]> INSERT INTO student VALUES(4,'
```

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4G 🔍 31

```
MariaDB [studentfaculty]> INSERT INTO student VALUES(4, 'tom', 'CS', 'Jr', 20);
Query OK, 1 row affected (0.002 sec)
```

```
MariaDB [studentfaculty]> INSERT INTO student VALUES(5, 'sid', 'CS', 'Jr', 20);
Query OK, 1 row affected (0.003 sec)
```

```
MariaDB [studentfaculty]> INSERT INTO student VALUES(6, 'harry', 'CS', 'Sr', 21);
Query OK, 1 row affected (0.006 sec)
```

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```
Query OK, 8 rows affected (0.009 sec)

MariaDB [studentfaculty]> INSERT INTO class VALUES('class1','18:23:22','room1',14);
Query OK, 1 row affected (0.135 sec)

MariaDB [studentfaculty]> INSERT INTO class VALUES('class10','15:44:22','room128',13);
Query OK, 1 row affected (0.004 sec)

MariaDB [studentfaculty]> INSERT INTO class VALUES('class2','18:23:22','room2',12);
Query OK, 1 row affected (0.007 sec)

MariaDB [studentfaculty]> INSERT INTO class VALUES('class3','16:45:14','room3',11);
Query OK, 1 row affected (0.013 sec)

MariaDB [studentfaculty]> INSERT INTO class VALUES('class4','10:08:01','room4',14);
Query OK, 1 row affected (0.002 sec)

MariaDB [studentfaculty]> INSERT INTO class VALUES('class5','11:44:12','room3',15);
Query OK, 1 row affected (0.009 sec)

MariaDB [studentfaculty]> INSERT INTO class VALUES('class6','05:44:12','room2',14);
Query OK, 1 row affected (0.002 sec)

MariaDB [studentfaculty]> INSERT INTO class VALUES('class7','06:12:11','room3',14);
Query OK, 1 row affected (0.007 sec)

MariaDB [studentfaculty]> INSERT INTO faculty VALUES(11,'Harshith',1000);
Query OK, 1 row affected (0.006 sec)

MariaDB [studentfaculty]>
MariaDB [studentfaculty]> INSERT INTO faculty VALUES(12,'Mohan',1000);
Query OK, 1 row affected (0.002 sec)

MariaDB [studentfaculty]>
MariaDB [studentfaculty]> INSERT INTO faculty VALUES(13,'Kumar',1001);
Query OK, 1 row affected (0.002 sec)

MariaDB [studentfaculty]>
MariaDB [studentfaculty]> INSERT INTO faculty VALUES(14,'Shobha',1002);
Query OK, 1 row affected (0.007 sec)

MariaDB [studentfaculty]>
```

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```
Query OK, 1 row affected (0.006 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(1,
'class1');
Query OK, 1 row affected (0.020 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(2,
'class1');
Query OK, 1 row affected (0.007 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(3,
'class3');
Query OK, 1 row affected (0.009 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(4,
'class3');
Query OK, 1 row affected (0.008 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(3,
'class3');
Query OK, 1 row affected (0.004 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(5,
'class4');
Query OK, 1 row affected (0.006 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(1,
'class5');
Query OK, 1 row affected (0.002 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(2,
'class5');
Query OK, 1 row affected (0.001 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(3,
'class5');
Query OK, 1 row affected (0.002 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(4,
'class5');
Query OK, 1 row affected (0.002 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(5,
'class5');
Query OK, 1 row affected (0.002 sec)

MariaDB [studentfaculty]> INSERT INTO enrolled VALUES(6,
'class5');
Query OK, 1 row affected (0.003 sec)
```

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```
MariaDB [studentfaculty]> select * from student;
```

snum	sname	major	lvl	age
1	jhon	CS	Sr	19
2	smith	CS	Jr	20
3	jacob	CV	Sr	20
4	tom	CS	Jr	20
5	sid	CS	Jr	20
6	harry	CS	Sr	21

6 rows in set (0.023 sec)

```
MariaDB [studentfaculty]> select * from class;
```

cname	meets_at	room	fid
class3	16:45:14	room3	11
class2	18:23:22	room2	12
class10	15:44:22	room128	13
class1	18:23:22	room1	14
class4	10:08:01	room4	14
class6	05:44:12	room2	14
class7	06:12:11	room3	14
class5	11:44:12	room3	15

8 rows in set (0.008 sec)

```
MariaDB [studentfaculty]> select * from enrolled;
```

snum	cname
1	class1
2	class1
3	class3
4	class3
3	class3
5	class4
1	class5
2	class5
3	class5
4	class5
5	class5
6	class5

12 rows in set (0.002 sec)

```
MariaDB [studentfaculty]> select * from faculty;
```

fid	fname	deptid
11	Harshith	1000
12	Mohan	1000
13	Kumar	1001
14	Shobha	1002
15	Shan	1000

```
5 rows in set (0.004 sec)
```

```

MariaDB [studentfaculty]> SELECT DISTINCT s.sname
-> FROM student s,class c,faculty f,enrolled e
-> WHERE s.snum=e.snum      AND
->       e cname=c cname   AND
->       s level='jr'      AND
->       f fname='Harshith' AND
->       f fid=c fid;
ERROR 1054 (42S22): Unknown column 's.level' in 'where clause'
MariaDB [studentfaculty]> SELECT DISTINCT s.sname
-> FROM student s,class c,faculty f,enrolled e
-> WHERE s.snum=e.snum      AND
->       e cname=c cname   AND
->       s lvl='Jr'        AND
->       f fname='Harshith' AND
->       f fid=c fid;
+-----+
| sname |
+-----+
| tom   |
+-----+
1 row in set (0.164 sec)

MariaDB [studentfaculty]> SELECT DISTINCT cname
-> FROM class
-> WHERE room='room128'
-> OR
-> cname IN (SELECT e cname FROM enrolled e GROUP BY
e cname HAVING COUNT(*)>=5);
+-----+
| cname |
+-----+
| class10 |
| class5  |
+-----+
2 rows in set (0.031 sec)

```

```
MariaDB [studentfaculty]> select DISTINCT s.sname
-> from student s
-> where s.snum in (SELECT e1.snum from enrolled e1,
enrolled e2, class c1, class
-> c2 where e1.snum = e2.snum and e1 cname <> e2.cna
me and e1 cname =
-> c1 cname and e2 cname = c2 cname and c1.meets_at
= c2.meets_at);
Empty set (0.151 sec)
```

Database changed

```
MariaDB [studentfaculty]> SELECT f.fname,f.fid FROM faculty f WHERE f.fid in (SELECT fid FROM class GROUP BY fid HAVING COUNT(*)=(SELECT COUNT(DISTINCT room) FROM class ));
```

```
Empty set (0.095 sec)
```

```
-> WHERE c cname = e cname GROUP BY c cname HAVING  
COUNT(c cname) < 5 );  
+-----+  
| fname |  
+-----+  
| Harshith |  
| Shobha |  
+-----+  
2 rows in set (0.003 sec)
```

```
MariaDB [studentfaculty]>
```

```
MariaDB [studentfaculty]> select s.age,s.lvl from student s group by s.age having s.lvl in
    -> (select s1.lvl from student s1 where s1.age = s.age group by s1.age having count(*) >=
        -> all (select s2.lvl from student s2 where s2.age = s1.age group by s2.age));
+-----+-----+
| age | lvl |
+-----+-----+
| 19 | Sr  |
| 20 | Jr  |
| 21 | Sr  |
+-----+-----+
3 rows in set, 6 warnings (0.154 sec)
```

```
MariaDB [studentfaculty]>
MariaDB [studentfaculty]> SELECT DISTINCT S.sname
    -> FROM student S
    -> WHERE S.snum NOT IN (SELECT E.snum
    -> FROM enrolled E );
Empty set (0.166 sec)
```



```
MariaDB [airline]> CREATE TABLE flight(
->     no INT,
->     frm VARCHAR(20),
->     too VARCHAR(20),
->     distance INT,
->     departs VARCHAR(20),
->     arrives VARCHAR(20),
->     price REAL,
->     PRIMARY KEY (no) );
Query OK, 0 rows affected (0.023 sec)
```

```
MariaDB [airline]> CREATE TABLE aircraft(
->     aid INT,
->     aname VARCHAR(20),
->     cruisingrange INT,
->     PRIMARY KEY (aid) );
Query OK, 0 rows affected (0.014 sec)
```

```
MariaDB [airline]> CREATE TABLE employees(
->     eid INT,
->     ename VARCHAR(20),
->     salary INT,
->     PRIMARY KEY (eid) );
Query OK, 0 rows affected (0.032 sec)
```

```
MariaDB [airline]> CREATE TABLE certified(
->     eid INT,
->     aid INT,
->     PRIMARY KEY (eid,aid),
->     FOREIGN KEY (eid) REFERENCES employees (eid),
->     FOREIGN KEY (aid) REFERENCES aircraft (aid) );
Query OK, 0 rows affected (0.030 sec)
```

```
MariaDB [airline]> INSERT INTO flight (no,frm,too,distance,departs,arrives,price) VALUES
->             (1,'Bangalore','Mangalore',360,'10:45
:00','12:00:00',10000),
->             (2,'Bangalore','Delhi',5000,'12:15:00
','04:30:00',25000),
->             (3,'Bangalore','Mumbai',3500,'02:15:0
0','05:25:00',30000),
->             (4,'Delhi','Mumbai',4500,'10:15:00',
'12:05:00',35000),
->             (5,'Delhi','Frankfurt',18000,'07:15:0
0','05:30:00',90000),
->             (6,'Bangalore','Frankfurt',19500,'10:
00:00','07:45:00',95000),
->             (7,'Bangalore','Frankfurt',17000,'12:
00:00','06:30:00',99000);
Query OK, 7 rows affected (0.131 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

```
MariaDB [airline]> INSERT INTO aircraft (aid,aname,cruis
ingrange) values
->          (123,'Airbus',1000),
->          (302,'Boeing',5000),
->          (306,'Jet01',5000),
->          (378,'Airbus380',8000),
->          (456,'Aircraft',500),
->          (789,'Aircraft02',800),
->          (951,'Aircraft03',1000);
Query OK, 7 rows affected (0.010 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

```
MariaDB [airline]> INSERT INTO employees (eid,ename,sala
ry) VALUES
->          (1,'Ajay',30000),
->          (2,'Ajith',85000),
->          (3,'Arnab',50000),
->          (4,'Harry',45000),
->          (5,'Ron',90000),
->          (6,'Josh',75000),
->          (7,'Ram',100000);
Query OK, 7 rows affected (0.006 sec)
Records: 7  Duplicates: 0  Warnings: 0
```

```
MariaDB [airline]> INSERT INTO certified (eid,aid) VALUE
S
->          (1,123),
->          (2,123),
->          (1,302),
->          (5,302),
->          (7,302),
->          (1,306),
->          (2,306),
->          (1,378),
->          (2,378),
->          (4,378),
->          (6,456),
->          (3,456),
->          (5,789),
->          (6,789),
->          (3,951),
->          (1,951),
->          (1,789);
Query OK, 17 rows affected (0.019 sec)
Records: 17  Duplicates: 0  Warnings: 0
```

```
MariaDB [airline]> select * from flight;
+----+-----+-----+-----+-----+-----+-----+
| no | frm      | too      | distance | departs | arrives | price |
+----+-----+-----+-----+-----+-----+-----+
| 1  | Bangalore | Mangalore |      360 | 10:45:00 | 12:00:00 | 10000 |
| 2  | Bangalore | Delhi     |    5000 | 12:15:00 | 04:30:00 | 25000 |
| 3  | Bangalore | Mumbai   |   3500 | 02:15:00 | 05:25:00 | 30000 |
| 4  | Delhi     | Mumbai   |   4500 | 10:15:00 | 12:05:00 | 35000 |
| 5  | Delhi     | Frankfurt | 18000  | 07:15:00 | 05:30:00 | 90000 |
| 6  | Bangalore | Frankfurt | 19500  | 10:00:00 | 07:45:00 | 95000 |
| 7  | Bangalore | Frankfurt | 17000  | 12:00:00 | 06:30:00 | 99000 |
+----+-----+-----+-----+-----+-----+-----+
7 rows in set (0.167 sec)
```

```
MariaDB [airline]> select * from aircraft;
+-----+-----+-----+
| aid | aname      | cruisingrange |
+-----+-----+-----+
| 123 | Airbus      |      1000   |
| 302 | Boeing      |      5000   |
| 306 | Jet01       |      5000   |
| 378 | Airbus380   |      8000   |
| 456 | Aircraft    |      500    |
| 789 | Aircraft02  |      800    |
| 951 | Aircraft03  |      1000   |
+-----+-----+-----+
7 rows in set (0.018 sec)

MariaDB [airline]> select * from employees;
+-----+-----+-----+
| eid | ename     | salary   |
+-----+-----+-----+
| 1   | Ajay       | 30000   |
| 2   | Ajith      | 85000   |
| 3   | Arnab      | 50000   |
| 4   | Harry      | 45000   |
| 5   | Ron         | 90000   |
| 6   | Josh        | 75000   |
| 7   | Ram         | 100000  |
+-----+-----+-----+
7 rows in set (0.013 sec)

MariaDB [airline]> select * from certified;
+-----+-----+
| eid | aid      |
+-----+-----+
| 1   | 123      |
| 1   | 302      |
| 1   | 306      |
| 1   | 378      |
| 1   | 789      |
| 1   | 951      |
| 2   | 123      |
| 2   | 306      |
| 2   | 378      |
| 3   | 456      |
| 3   | 951      |
| 4   | 378      |
| 5   | 302      |
| 5   | 789      |
| 6   | 456      |
| 6   | 789      |
| 7   | 302      |
+-----+-----+
17 rows in set (0.019 sec)
```

```
MariaDB [airline]> SELECT DISTINCT a.aname
    ->      FROM aircraft a,certified c,employees e
    ->      WHERE a.aid=c.aid
    ->      AND c.eid=e.eid
    ->      AND NOT EXISTS
    ->          (SELECT *
    ->              FROM employees e1
    ->             WHERE e1.eid=e.eid
    ->              AND e1.salary<80000);
+-----+
| aname   |
+-----+
| Airbus  |
| Boeing  |
| Jet01   |
| Airbus380|
| Aircraft02|
+-----+
```

5 rows in set (0.061 sec)

```
MariaDB [airline]> SELECT c.eid,MAX(cruisingrange)
    ->      FROM certified c,aircraft a
    ->      WHERE c.aid=a.aid
    ->      GROUP BY c.eid
    ->      HAVING COUNT(*)>3;
+-----+
| eid | MAX(cruisingrange) |
+-----+
| 1  |           8000  |
+-----+
```

1 row in set (0.038 sec)

```
MariaDB [airline]> SELECT DISTINCT e.ename
    ->      FROM employees e
    ->      WHERE e.salary<
    ->          (SELECT MIN(f.price)
    ->              FROM flight f
    ->             WHERE f.frm='Bangalore'
    ->               AND f.too='Frankfurt');
+-----+
| ename   |
+-----+
| Ajay    |
| Ajith   |
| Arnab   |
| Harry   |
| Ron     |
| Josh    |
+-----+
```

6 rows in set (0.031 sec)

```
MariaDB [airline]> SELECT a.aid,a.aname,AVG(e.salary)
->      FROM aircraft a,certified c,employees e
->      WHERE a.aid=c.aid
->      AND c.eid=e.eid
->      AND a.cruisingrange>1000
->
->      GROUP BY a.aid,a.aname;
+-----+-----+
| aid | aname      | AVG(e.salary) |
+-----+-----+
| 302 | Boeing      |    73333.3333 |
| 306 | Jet01       |    57500.0000 |
| 378 | Airbus380   |    53333.3333 |
+-----+
3 rows in set (0.012 sec)
```

```
MariaDB [airline]> SELECT distinct e.ename
->      FROM employees e,aircraft a,certified c
->      WHERE e.eid=c.eid
->      AND c.aid=a.aid
->      AND a.aname='Boeing';
+-----+
| ename |
+-----+
| Ajay  |
| Ron   |
| Ram   |
+-----+
3 rows in set (0.003 sec)
```

```
MariaDB [airline]> select fname from aircraft where crusingrange > any (select distance from flight where frm='Bangalore' and too='Delhi');
+-----+
| fname   |
+-----+
| Airbus380 |
+-----+
1 row in set (0.020 sec)
```

```
MariaDB [airline]> SELECT F.departs
-> FROM flight F
-> WHERE F.no IN ( ( SELECT F0.no
->   FROM flight F0
->   WHERE F0.frm = 'Bangalore' AND F0.too= 'Kolkata'
->     AND extract(hour from F0.arrives) < 18 )
-> UNION
-> ( SELECT F0.no
->   FROM flight F0, flight F1
->   WHERE F0.frm= 'Bangalore' AND F0.too<> 'Kolkata'
->     AND F0.too= F1.frm AND F1.too = 'Kolkata'
->     AND F1.deperts > F0.arrives
->     AND extract(hour from F1.arrives) < 18)
-> UNION
-> ( SELECT F0.no
->   FROM flight F0, flight F1, flight F2
->   WHERE F0.frm = 'Bangalore'
->     AND F0.too = F1.frm
->     AND F1.too = F2.frm
->     AND F2.too = 'Kolkata'
->     AND F0.too <> 'Kolkata'
->     AND F1.too <> 'Kolkata'
->     AND F1.deperts > F0.arrives
->     AND F2.deperts > F1.arrives
->     AND extract(hour from F2.arrives) < 18));
Empty set (0.065 sec)
```

