

## 1.Feladat:

```
MariaDB [dbgyak]> select * from termek;
+-----+-----+-----+-----+
| tkod | nev      | ear      | gyarto |
+-----+-----+-----+-----+
| 1    | Telefon  | 200000   | 11     |
| 2    | TV       | 250000   | 12     |
| 3    | Furo     | 88000    | 10     |
| 4    | Hangsz?r? | 95000    | 13     |
| 5    | Fulhallgato | 30000    | 13     |
+-----+-----+-----+-----+
5 rows in set (0.046 sec)
```

```
MariaDB [dbgyak]> select * from egysegek;
+-----+-----+
| aru | db |
+-----+-----+
| 2   | 1  |
| 3   | 4  |
| 1   | 5  |
+-----+-----+
3 rows in set (0.044 sec)
```

```
MariaDB [dbgyak]> select * from gyarto;
+-----+-----+-----+-----+-----+-----+
| adoszam | nev      | telephely | irsz | varos      | utca      |
+-----+-----+-----+-----+-----+-----+
| 10      | Bosch   | kulvaros  | 1000 | Miskolc    | Valami ut |
| 11      | Samsung | kulvaros  | 1100 | Miskolc    | Valamike ut |
| 12      | LG      | belvaros  | 1101 | Budapest   | Elvesz ut  |
| 13      | Sony    | belvaros  | 1102 | Varso      | kenyer ut  |
| 14      | AMD     | belvaros  | 1201 | Peking     | Alv utca   |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.041 sec)
```

## Lekérdezések:

```
MariaDB [dbgyak]> ALTER TABLE alkatresz ADD ar INT;
Query OK, 0 rows affected (0.358 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [dbgyak]> describe alkatresz;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| akod  | int(11)   | NO   | PRI | NULL    |       |
| nev   | varchar(50) | NO   |     | NULL    |       |
| ar     | int(11)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.022 sec)
```

```
MariaDB [dbgyak]> Select gy.nev from gyarto gy where gy.adoszam NOT IN (select gyarto from termek);
+-----+
| nev |
+-----+
| AMD |
+-----+
1 row in set (0.001 sec)
```

```
MariaDB [dbgyak]> UPDATE termek SET ear = ear + (ear*10.0/100) WHERE tkod = 3;
Query OK, 1 row affected (0.067 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

```
MariaDB [dbgyak]> select * from termek;
+-----+-----+-----+-----+
| tkod | nev      | ear      | gyarto |
+-----+-----+-----+-----+
| 1    | Telefon  | 200000   | 11     |
| 2    | TV       | 250000   | 12     |
| 3    | Furo     | 88000    | 10     |
| 4    | Hangsz?r? | 95000    | 13     |
| 5    | Fulhallgato | 30000    | 13     |
+-----+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [dbgyak]> select t.nev,db from egysegek e,termek t where e.aru = t.tkod order by db desc limit 0,1;
+-----+-----+
| nev | db |
+-----+-----+
| Telefon | 5 |
+-----+-----+
1 row in set (0.000 sec)
```

## 2.Feladat:

```
MariaDB [dbgyak5]> select * from tanfolyam;
```

tkod	ar	megnevezes	tipus
1	10000	Matek	B
10	10000	Angol	B
12	10000	Magyar	C
13	12000	Nyelvtan	D
14	14500	Fizika	A
15	10000	Programozas	B
16	5600	Programozas	a
17	17500	Analizis	C
18	175000	Media	D

9 rows in set (0.030 sec)

```
MariaDB [dbgyak5]> select * from befizetes;
```

kurzus	diak	befizetes
10	343434	12000
10	565656	7500
14	565656	7500
13	454545	12000
1	232323	5000
10	232323	5000

```
MariaDB [dbgyak5]> select * from resztvevo;
```

tajszam	nev	lakcim
121212	Blanka	K ut. 26
232323	Palko	A ut. 24
343434	Hutyi	L ut. 25
454545	Jarko	P ut. 28
565656	Ajki	U ut. 222

5 rows in set (0.017 sec)

## Lekérdezések:

```
MariaDB [dbgyak5]> select tipus,AVG(ar) from tanfolyam group by tipus;
```

tipus	AVG(ar)
A	10050.0000
B	10000.0000
C	13750.0000
D	12000.0000

4 rows in set (0.000 sec)

```
MariaDB [dbgyak5]> SELECT megnevezes, ar, IF(ar>100000, "Draga", "Olcsó") FROM tanfolyam;
```

megnevezes	ar	IF(ar>100000, "Draga", "Olcsó")
Matek	10000	Olcsó
Angol	10000	Olcsó
Magyar	10000	Olcsó
Nyelvtan	12000	Olcsó
Fizika	14500	Olcsó
Programozas	10000	Olcsó
Programozas	5600	Olcsó
Analizis	17500	Olcsó
Media	175000	Draga

9 rows in set (0.000 sec)

```
MariaDB [dbgyak5]> select megnevezes,IF(COUNT(DISTINCT(befizetes))>10,"Sok","Keves" ) AS DiakSzam FROM befizetes,tanfolyam WHERE kurzus = tkod group by megnevezes;
```

megnevezes	DiakSzam
Angol	Keves
Fizika	Keves
Matek	Keves
Nyelvtan	Keves

4 rows in set (0.000 sec)

```
MariaDB [dbgyak5]> select megnevezes,IF(COUNT(DISTINCT(befizetes))>1,"Sok","Keves" ) AS DiakSzam FROM befizetes,tanfolyam WHERE kurzus = tkod group by megnevezes;
```

megnevezes	DiakSzam
Angol	Sok
Fizika	Keves
Matek	Keves
Nyelvtan	Keves

4 rows in set (0.001 sec)

### 3.Feladat:

```
MariaDB [dbgyak6]> select * from gyarto;
+-----+-----+-----+
| adoszam | nev      | telephely |
+-----+-----+-----+
|      10 | Bosch   | Barcika   |
|      11 | Tekoma  | Edeleny   |
|      12 | Parkside | Miskolc   |
+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [dbgyak6]> select * from termek;
+-----+-----+-----+
| tkod | nev      | ear |
+-----+-----+-----+
|    1 | Furo     | 12000 |
|    2 | Fem      | 3000  |
|    3 | Funyiro  | 15000 |
|    4 | Akkus furo | 24000 |
|    5 | Lampa    | 16020 |
+-----+-----+-----+
5 rows in set (0.000 sec)
```

```
MariaDB [dbgyak6]> select * from gyarto_termek;
+-----+-----+
| gyarto | termek |
+-----+-----+
|      10 |      1 |
|      10 |      3 |
|      10 |      4 |
|      11 |      2 |
|      12 |      1 |
|      12 |      3 |
+-----+-----+
```

### N:M kapcsolat:

```
MariaDB [dbgyak6]> CREATE TABLE gyarto(adoszam INT PRIMARY KEY,nev CHAR(30),telephely VARCHAR(100));
Query OK, 0 rows affected (0.196 sec)

MariaDB [dbgyak6]> CREATE TABLE termek(tkod INT PRIMARY KEY,nev CHAR(50),ear INT CHECK(ear>0));
Query OK, 0 rows affected (0.181 sec)

MariaDB [dbgyak6]> CREATE TABLE gyarto_termek(gyarto INT,termek INT,PRIMARY KEY(gyarto,termek));
Query OK, 0 rows affected (0.162 sec)
```

XAMPP for Windows - mysql -u root -p

```
MariaDB [dbgyak6]> ALTER TABLE gyarto_termek ADD CONSTRAINT FOREIGN KEY (gyarto) REFERENCES gyarto(adoszam);
Query OK, 0 rows affected (0.488 sec)
Records: 0 Duplicates: 0 Warnings: 0

MariaDB [dbgyak6]> ALTER TABLE gyarto_termek ADD CONSTRAINT FOREIGN KEY (termek) REFERENCES termek(tkod);
Query OK, 0 rows affected (0.593 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
MariaDB [dbgyak6]> SELECT gyarto.* FROM gyarto JOIN gyarto_termek ON gyarto.adoszam = gyarto_termek.gyarto WHERE gyarto_termek.termek = 1;
+-----+-----+-----+
| adoszam | nev      | telephely |
+-----+-----+-----+
|      10 | Bosch   | Barcika   |
|      12 | Parkside | Miskolc   |
+-----+-----+-----+
2 rows in set (0.000 sec)
```

```
MariaDB [dbgyak6]> SELECT gyarto.* FROM gyarto JOIN gyarto_termek ON gyarto.adoszam = gyarto_termek.gyarto WHERE gyarto_termek.termek = 4;
+-----+-----+-----+
| adoszam | nev      | telephely |
+-----+-----+-----+
|      10 | Bosch   | Barcika   |
+-----+-----+-----+
1 row in set (0.000 sec)
```

```
MariaDB [dbgyak6]> SELECT termek.* FROM termek JOIN gyarto_termek ON termek.tkod = gyarto_termek.termek WHERE gyarto_termek.gyarto = 10;
+-----+-----+-----+
| tkod | nev      | ear |
+-----+-----+-----+
|    1 | Furo     | 12000 |
|    3 | Funyiro  | 15000 |
|    4 | Akkus furo | 24000 |
+-----+-----+-----+
3 rows in set (0.000 sec)
```

```
MariaDB [dbgyak6]> SELECT termek.* FROM termek JOIN gyarto_termek ON termek.tkod = gyarto_termek.termek WHERE gyarto_termek.gyarto = 11;
+-----+-----+-----+
| tkod | nev      | ear |
+-----+-----+-----+
|    2 | Fem      | 3000  |
+-----+-----+-----+
1 row in set (0.000 sec)
```