📖

SELECT

👤 **Abdujabbor Mirxoliqov** 01/09/2020

Column larni nomlashda qandaydur qonuniyat bormi? qayerdadur column_name deyilgan yana bir joyda columnName deyilgan?

👤 **Sardor Dushamov** 01/09/2020

shu fikrni yaxshi aytdingiz, hamma joyda bir xilda qilaman endi. Shu paytgacha uncha e'tibor qimagan ekanman

> 💡 Ma'lumotlar omboridan kerakli ma'lumotlarni olish

Qolip

   Omborimizda qanday jadvallar mavjud?

   "employee" jadvalidagi barcha ma'lumotlarni olish

   Jadvaldan kerakli ustunlarni tanlab ma'lumotlar olish

   Jadvaldan ustun nomini boshqa nom bilan chiqarish

   COUNT() - Jadvaldagi ma'lumotlari sonini olish.

   CONCAT()

CONCAT_WS()

IF

MAX, MIN

SUM, AVG

LIMIT

Test qilish uchun tayyor baza
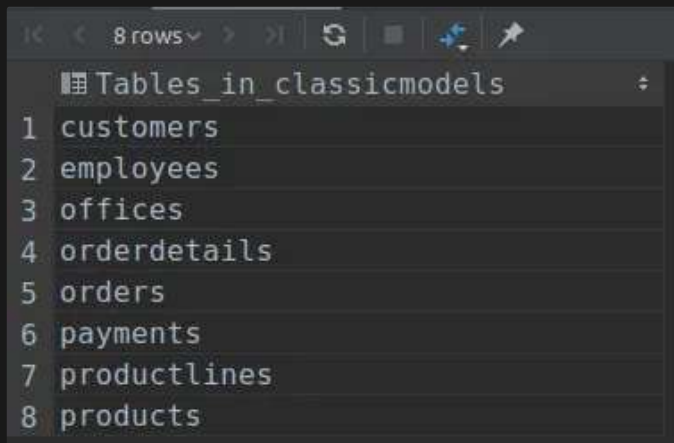
📄 mysqlsampledatabase.sql 205.3KB

Qolip

```sql
SELECT ustun_1, ustun_2, ... FROM jadval_nomi;
```

Omborimizda qanday jadvallar mavjud?

```sql
SHOW tables;
```


"employee" jadvalidagi barcha ma'lumotlarni olish

```sql
select * from employees;
```

`*` - jadvaldagi barcha ustunlarni tanlash uchun ishlatiladi

Agar bizga hamma ustunlar kerak bo'lmasa, faqat kerakli ustunlarni yozishimiz mumkin

Jadvaldan kerakli ustunlarni tanlab ma'lumotlar olish

```
 employeeNumber ÷   lastName  ÷    firstName  ÷   extension ÷   email                         ÷   officeCode ÷   reportsTo ÷  jobTitle
           1002  Murphy          Diane           x5800         dmurphy@classicmodelcars.com       1              <null>  President
           1056  Patterson       Mary            x4611         mpatterso@classicmodelcars.com     1                1002  VP Sales
           1076  Firrelli        Jeff            x9273         jfirrelli@classicmodelcars.com     1                1002  VP Marketing
           1088  Patterson       William         x4871         wpatterson@classicmodelcars.com    6                1056  Sales Manager (APAC
           1102  Bondur          Gerard          x5408         gbondur@classicmodelcars.com       4                1056  Sale Manager (EMEA)
           1143  Bow             Anthony         x5428         abow@classicmodelcars.com          1                1056  Sales Manager (NA)
           1165  Jennings        Leslie          x3291         ljennings@classicmodelcars.com     1                1143  Sales Rep
           1166  Thompson        Leslie          x4065         lthompson@classicmodelcars.com     1                1143  Sales Rep
           1188  Firrelli        Julie           x2173         jfirrelli@classicmodelcars.com     2                1143  Sales Rep
           1216  Patterson       Steve           x4334         spatterson@classicmodelcars.com    2                1143  Sales Rep
           1286  Tseng           Foon Yue        x2248         ftseng@classicmodelcars.com        3                1143  Sales Rep
           1323  Vanauf          George          x4102         gvanauf@classicmodelcars.com       3                1143  Sales Rep
           1337  Bondur          Loui            x6493         lbondur@classicmodelcars.com       4                1102  Sales Rep
           1370  Hernandez       Gerard          x2028         ghernande@classicmodelcars.com     4                1102  Sales Rep
           1401  Castillo        Pamela          x2759         pcastillo@classicmodelcars.com     4                1102  Sales Rep
           1501  Bott            Larry           x2311         lbott@classicmodelcars.com         7                1102  Sales Rep
           1504  Jones           Barry           x102          bjones@classicmodelcars.com        7                1102  Sales Rep
           1611  Fixter          Andy            x101          afixter@classicmodelcars.com       6                1088  Sales Rep
           1612  Marsh           Peter           x102          pmarsh@classicmodelcars.com        6                1088  Sales Rep
           1619  King            Tom             x103          tking@classicmodelcars.com         6                1088  Sales Rep
           1621  Nishi           Mami            x101          mnishi@classicmodelcars.com        5                1056  Sales Rep
           1625  Kato            Yoshimi         x102          ykato@classicmodelcars.com         5                1621  Sales Rep
           1702  Gerard          Martin          x2312         mgerard@classicmodelcars.com       4                1102  Sales Rep
```

```
select lastName, firstName from employees; Yuqoridagi so'rovda lastname va firstNam
e ustunlaridagi malumotlarni chiqaradi
```

Jadvaldan ustun nomini boshqa nom bilan chiqarish

```
select lastName as Familya, firstName as Ism, email from employees;
```

```
   Familya                    ÷    Ism                    ÷
1  Murphy                          Diane
2  Patterson                       Mary
3  Firrelli                        Jeff
4  Patterson                       William
5  Bondur                          Gerard
6  Bow                             Anthony
7  Jennings                        Leslie
8  Thompson                        Leslie
9  Firrelli                        Julie
```

COUNT() - Jadvaldagi ma'lumotlari sonini olish.

```
select count(*) from employees;
```

Yuqorida ustun nomi `count(*)` ko'rinishida chiqaradi. Uni o'zimiz xohlagan ustun nomi bilan nomlashimiz mumkin.

```
select count(*) as Hodimlar_soni from employees;
```


CONCAT()

```
-- Ustunlarni birlashtirgan holda ma`lumot olish select CONCAT(lastName, ' ' ,first
Name) as fullName from employees;
```


CONCAT_WS()

```
-- CONCAT_WS() - funksiyasi CANCAT() funksiyasiga o`xshagan bo`lib, -- bir nechta u
stundagi ma`lumotlarni birlashtirib chiqaradi select CONCAT_WS('-', firstName, last
Name) as fullName from employees; -- natija: Diane-Murphy -- CONCAT va CONCAT_WS ni
ng farqi shundaki, CONCAT da berilgan parametrlarni -- bir biriga qo'shadi. CANCAT_
WS da bo'lsa, har bir parametrni, berilgan belgi bilan qo'shadi // Result: LastNam
e, FirstName, MiddleName CONCAT( LastName, ', ', FirstName, ', ', MiddleName ) // R
esult: LastName, FirstName, MiddleName CONCAT_WS( ', ', LastName, FirstName, Middle
Name )
```

IF

So'rovlarda `IF` dan foydalanish ham mumkin

```
select ismi, familya, IF(yoshi > 70, "qari", "yosh") from aholi sardor dushamov 32
-> yosh eshmat toshmatov 72 -> qari
```

MAX, MIN

MAX - jadvaldagi berilgan ustundan eng MAKSIMUM baland qiymatlisini topadi `SELECT M AX`(employeeNumber) `FROM` employees MIN - jadvaldagi berilgan ustundan eng MINIMUM ki chik qiymatlisini topadi `SELECT MIN`(employeeNumber) `FROM` employees

SUM, AVG

SUM - jadvaldagi berilgan ustundagilarning yig'indisi olish uchun `SELECT SUM`(employ eeNumber) `FROM` employees AVG - jadvaldagi berilgan ustundagilarning o`rtacha qiymat ini olish uchun `SELECT AVG`(employeeNumber) `FROM` employees

LIMIT

Databasedan ma`lumot olayotgan paytdan limit bilan ma`lumot olish `SELECT * FROM` emp loyees `LIMIT 10` Ushbu misolda jadvaldan 10 ta qatordagi ma`lumot olinadi.

```
-- Jadvallar ro`yxatini ko`rsatish SHOW tables; -- "person" jadvalidagi barcha ma`l
umotlarni olish SELECT * FROM person; -- jadvaldan kerakli ustunlarni ma`lumotlarin
i olish SELECT last_name, first_name FROM person; -- jadvaldan kerakli ustunlarni a
lias bilan, -- ya`ni boshqa nom bilan ma`lumotlarini olish SELECT last_name AS fami
lya, first_name AS ism FROM person -- COUNT - jadvaldagi qatorlar sonini aniqlash f
unksiyasi SELECT count(*) FROM person; -- MAX - ko`rsatilgan ustun bo`yicha eng bal
and qiymatni aniqlaydi -- salary - ustun nomi(o`zbekchada - oylik) SELECT MAX(salar
y) FROM person -- MIN - ko`rsatilgan ustun bo`yicha eng kichik qiymatni aniqlaydi S
ELECT MIN(salary) FROM person -- SUM - ko`rsatilgan ustundagi barcha qiymatlarni yi
g`indisini aniqlaydi SELECT SUM(salary) FROM person -- AVG - ko`rsatilgan ustundagi
barcha qiymatlarni o`rtacha qiymatini aniqlaydi -- Misol: 10, 15, 20, 25 - shu 4 ta
son berilgan -- Ularning o`rtacha qiymatini quyidagicha hisoblanadi -- (10+15+20+2
5)/4 =17.5 - sonlarni yig`indisini soniga bo`lish orqali aniqlanadi SELECT AVG(sala
ry) FROM person -- LIMIT - jadvaldan kerakli sondagi qatorni olish. -- 10 ta qator
ma`lumot kerak bo`lsa quyidagicha ko`rsatiladi. SELECT * FROM person LIMIT 10
```

- List