



FUNKSIYA

[CREATE FUNCTION](#)

[SELECTda funksiyadan foydalanish](#)

[PROTSEDURAda FUNKSIYADAN foydalanish](#)

[Funksiyani o'chirish](#)

[Funksiyalar ro'yxati](#)

[Protsedura va Funksiyaning farqlari](#)

FUNKSIYA - bitta qiymat qaytaradigan maxsus saqlanadigan dastur.

Aggregate funksiyalar: - SUM() - COUNT() - MAX() - MIN() - AVG()
DATE funksiyalar: - YEAR() - MONTH() - HOUR() - DAY()
...

CREATE FUNCTION

```
DELIMITER $$ CREATE FUNCTION function_name( param1, param2,...  
) RETURNS datatype BEGIN -- statements END $$ DELIMITER ;
```

function_name - funksiyani nomi. Funksiyaga xohlagancha nom berish mumkin

param1, param2 - funksiyaga beriladigan parametrlar

RETURN datatype - funksiya qaytaradigan natijaning tipi

```
DELIMITER $$ CREATE FUNCTION CustomerLevel( credit DECIMAL(10,2) ) RETURNS VARCHAR(20) BEGIN DECLARE customerLevel VARCHAR(20); IF credit > 50000 THEN SET customerLevel = 'PLATINUM'; ELSEIF (credit <= 50000 AND credit >= 10000) THEN SET customerLevel = 'GOLD'; ELSEIF credit < 10000 THEN SET customerLevel = 'SILVER'; END IF; -- return the customer level RETURN (customerLevel); END$$ DELIMITER ;
```

Yuqoridagi Funksiyani hosil qilganimizdan keyin uni tekshirib ko'ramiz: `select CustomerLevel(100000); select CustomerLevel(1000);`

SELECT da funksiya dan foydalanish

```
SELECT customerName, CustomerLevel(creditLimit) FROM customers ORDER BY customerName; Natija: +-----+-----+ | customerName | CustomerLevel(creditLimit) | +-----+-----+
+-----+-----+ | Alpha Cognac | PLATINUM |
| American Souvenirs Inc | SILVER |
| Amica Models & Co. | PLATINUM |
| ANG Resellers | SILVER |
| Anna's Decorations, Ltd | PLATINUM |
| Anton Designs, Ltd. | SILVER |
| Asian Shopping Network, Co | SILVER |
| Asian Treasures, Inc. | SILVER |
| Atelier graphique | GOLD |
| Australian Collectables, Ltd | PLATINUM |
```

PROTSEDURA da FUNKSIYADAN foydalanish

```
DELIMITER $$ CREATE PROCEDURE GetCustomerLevel( IN customerNo INT, OUT customerLevel VARCHAR(20) ) BEGIN DECLARE creditLimit DEC(10,2) DEFAULT 0; -- get credit limit of a customer SELECT creditLimit INTO credit FROM customers WHERE customerNumber = customerNo; -- call the function SET customerLevel = CustomerLevel(credit); END$$ DELIMITER ;
```

Funksiyani o'chirish

```
DROP FUNCTION IF EXISTS OrderLeadTime;
```

Funksiyalar ro'yxati

SQL

 Copy

```
SHOW FUNCTION STATUS WHERE db = 'baza_nomi';
```

Protsedura va Funksiyaning farqlari