



DATE funksiyalar

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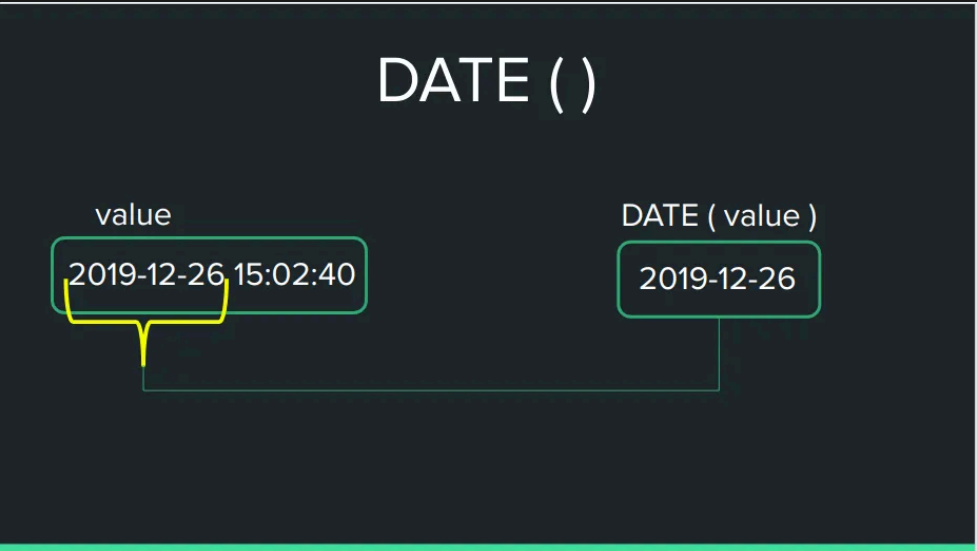
CURDATE()

```
Ushbu funksiya hozirgi sanani 'YYYY-MM-DD' formatda qaytaradi SELECT CURDATE(); +-----+ | CURDATE() | +-----+ | 2019-12-26 | +-----+ CURRENT_DATE va CURRENT_DATE() funksiyalari CURDATE() funksiyasining sinonimlari desak ham bo'ladi. Ular bir xil vazifani bajaradi SELECT CURRENT_DATE(), CURRENT_DATE, CURDATE(); +-----+-----+ | CURRENT_DATE() | CURRENT_DATE | CURDATE() | +-----+-----+ | 2019-12-26 | 2019-12-26 | 2019-12-26 | +-----+-----+ So'rovlarda ishlatilishi: select count(*) from salaries where to_date >= CURDATE(); select count(*) from salaries where CURDATE() between from_date and to_date 9999-12-31
```

NOW()

```
Ushbu funksiya hozirgi sanani va vaqtni 'YYYY-MM-DD HH:MM:DD' formatda qaytaradi. Ya'ni Hozirgi sana va vaqtni soat, minut sekundlari bilan qaytaradi. SELECT NOW(); +-----+-----+ | NOW() | +-----+-----+ | 2019-12-26 15:02:40 | +-----+-----+ CURRENT_TIMESTAMP() VA NOW() VA CURRENT_TIMESTAMP - Bularni deyarli bir xil qiymat qaytaradi va bittasini o'rniga boshqasini ishlatib ketish mumkin SELECT CURRENT_TIMESTAMP(), NOW(), CURRENT_TIMESTAMP; +-----+-----+ | CURRENT_TIMESTAMP() | NOW() | CURRENT_TIMESTAMP | +-----+-----+ | 2019-12-26 15:58:25 | 2019-12-26 15:58:25 | 2019-12-26 15:58:25 | +-----+-----+ NOW() - funksiyasidan jadval hosil qilayotganda, default qiymat sifatida ishlatish mumkin. CREATE TABLE category( id INT PRIMARY KEY AUTO_INCREMENT, title VARCHAR(255) NOT NULL, created_at DATETIME NOT NULL DEFAULT NOW() ); Yuqoridagi hosil qilgan jadvalga ma'lumot qo'shadigan bo'lsak: INSERT INTO category(title) VALUES('Test NOW() funksiyasi uchun'); SELECT * FROM category; So'rovlarda ishlatilishi: select count(*) from salaries where NOW() between from_date and to_date; select count(*) from salaries where to_date >= NOW(); -- Yuqoridagi so'rovlarni o'zingiz tekshirib ko'rishingiz mumkin
```

DATE()



```
DATE() - funksiyasi berilgan 'YYYY-MM-DD HH:MM:DD' formatdagi vaqtdan, sanani ajratib beradi. Ya'ni 'YYYY-MM-DD' formatda qaytaradi natijani SELECT DATE('2019-12-26 15:02:40') as kun; +-----+ | kun | +-----+ | 2019-12-26 | +-----+ So'rovlarda ishlatilishi: select * from salaries where to_date >= DATE(NOW()); select * from salaries where from_date >= DATE('1992-01-01 00:01:23') AND to_date <= DATE('1992-12-31 23:59:59');
```

DAY()

DAY ()

value

2019-12-26

DAY (value)

26

DAY() - funksiyasi berilgan 'YYYY-MM-DD' yoki 'YYYY-MM-DD HH:MM:DD' formatdagi vaqtdan, oyning qaysi kuni ekanligini ajratib beradi. `select DAY('2019-12-26 15:02:40') as bugungi_sana; +-----+ | bugungi_sana | +-----+ | 26 | +-----+` So'rovlarda ishlatilishi: `select * from employees where DAY(birth_date) = 1 limit 10` Ushbu so'rovda oyning 1 - sanasida tug'ilganlarni chiqaradi

YEAR()

YEAR ()

value

2019-12-26

YEAR (value)

2019

YEAR() - funksiyasi berilgan 'YYYY-MM-DD' yoki 'YYYY-MM-DD HH:MM:DD' formatdagi vaqtdan, Yilni ajratib beradi. `select YEAR('2019-12-26 15:02:40') as bugungi_sana; +-----+ | bugungi_sana | +-----+ | 2019 | +-----+` So'rovlarda ishlatilishi: `select * from employees where YEAR(birth_date) = 1980 limit 10` Ushbu so'rovda 1980-yil tug'ilganlarni chiqaradi

MONTH()

MONTH ()

value

2019-12-26

MONTH (value)

12

MONTH() - funksiyasi berilgan 'YYYY-MM-DD' yoki 'YYYY-MM-DD HH:MM:DD' formatdagi vaqtdan, Oyni ajratib beradi. Natija son ko'rinishida bo'ladi `select MONTH('2019-12-26 15:02:40') as bugungi_sana; +-----+ | bugungi_sana | +-----+ | 12 | +-----+` So'rovlarda ishlatilishi: `select * from employees where MONTH(birth_date) = 12 limit 10` Ushbu so'rovda DEKABR oyida tug'ilganlarni chiqaradi

HOUR()

HOUR ()

value

2019-12-26 13:20:01

HOUR(value)

13

HOUR() - funksiyasi berilgan 'YYYY-MM-DD' yoki 'YYYY-MM-DD HH:MM:DD' formatdagi vaqtdan, SOATni ajratib beradi. `select HOUR('2019-12-26 15:02:40') as vaqt; +-----+ | vaqt. | +-----+ | 15 | +-----+ select HOUR('655:02:40') as vaqt; +-----+ | bugungi_sana | +-----+ | 655 | +-----+`

WEEK()

WEEK ()

value

2019-03-26

WEEK(value)

13

January 2019								February 2019								March 2019							
WN	Mon	Tue	Wed	Thu	Fri	Sat	Sun	WN	Mon	Tue	Wed	Thu	Fri	Sat	Sun	WN	Mon	Tue	Wed	Thu	Fri	Sat	Sun
01	31	1	2	3	4	5	6	05	28	29	30	31	1	2	3	09	25	26	27	28	1	2	3
02	7	8	9	10	11	12	13	06	4	5	6	7	8	9	10	10	4	5	6	7	8	9	10
03	14	15	16	17	18	19	20	07	11	12	13	14	15	16	17	11	11	12	13	14	15	16	17
04	21	22	23	24	25	26	27	08	18	19	20	21	22	23	24	12	18	19	20	21	22	23	24
05	28	29	30	31	1	2	3	09	25	26	27	28	1	2	3	13	25	26	27	28	29	30	31

1 yil 365 yoki 366 kundan tashkil topgan. Har bir hafta 7 kundan iborat. $365/7=52$ hafta dan iborat. WEEK()- funksiyasi yordamida berilgan sana yilning nechinchisi haftasida ekanligini aniqlash mumkin

WEEKDAY()

Berilgan sana, haftaning qaysi indeksida ekanligini aniqlab beradi `select weekday('2022-09-16');`; Natija sonlar ko'rinishida chiqadi 0 1 2 3 4 5 6 Monday Tuesday Wednesday Thursday Friday Saturday Sunday Dushanba Seshanba Chorshanba Payshanba Juma Shanba Yakshanba

DAYOFWEEK() va DAYNAME()

DAYOFWEEK(date); Berilgan sana, haftaning qaysi kuniga to'g'ri kelishi aniqlab beradi. Natija son bb qaytadi. 1 2 3 4 5 6 7 Sunday Monday Tuesday Wednesday Thursday Friday Saturday Yakshanba Dushanba Seshanba Chorshanba Payshanba Juma Shanba DAYNAME(date) - Berilgan sana, haftaning qaysi kuniga to'g'ri kelishi aniqlab beradi. Natija matn turida bo'lib qaytadi. `SELECT DAYOFWEEK('2019-12-31') as son_hafta, DAYNAME('2019-12-31') as matn_hafta; Natija: +-----+ | son_hafta | matn_hafta | +-----+`
-- | 3 | Tuesday | +-----+

DATE_ADD() | ADDDATE()

```
DATE_ADD() va ADDDATE() - bu ikkala funksiya ham bir xil vazifa bajaradi. Berilgan sanaga kun, soat, minut va boshqacha vaqt turlarini qo'shib beradi Qolip: ADDDATE(date, INTERV
AL expr unit) date - sana INTERVAL expr unit - qancha vaqt qo'shish kerakligi Misol: Berilgan sanaga 10 kun qo'shish SELECT ADDDATE('2019-12-18', 10); Natija: +-----
-----+ | ADDDATE('2019-12-18',10) | +-----+ | 2019-12-28 | +-----+ Berilgan sanadan 12 kun olib tashlash: SELECT ADDDATE('2019-12-1
8', -12); Natija: +-----+ | ADDDATE('2019-12-18', -12) | +-----+ | 2019-12-06 | +-----+ Bu funksiya faqat ku
n qo'shish uchun xizmat qilmaydi. Kundan tashqari soat, minut sekund ham qo'shishimiz mumkin. Endi 10 kunni INTERVAL bilan qo'shish ko'ramiz; SELECT ADDDATE('2019-12-18', INTERV
AL 10 day); Natija: +-----+ | ADDDATE('2019-12-18', INTERVAL 10 day) | +-----+ | 2019-12-28 | +-----+
-----+ Ko'rib turganingizdek INTERVAL so'zidan keyin keraklixa kun, soat, minutlarni ko'rsatishimiz mumkin. Formula quyidagicha : INTERVAL [qancha] [vaqt
turi] [qancha] - bu qismida musbat va manfiy sonlar bo'lishi mumkin [vaqt turi] - quyidagi qiymatlarni berishimiz mumkin: MICROSECOND SECOND - sekund qo'shish uchun MINUTE - min
ut qo'shish uchun HOUR - soat qo'shish uchun DAY - kun qo'shish uchun WEEK - hafta qo'shish uchun MONTH - oy qo'shish uchun QUARTER - chorak qo'shish uchun YEAR - yil qo'shish u
chun SECOND MICROSECOND MINUTE MICROSECOND MINUTE_SECOND HOUR MICROSECOND HOUR_SECOND HOUR_MINUTE DAY MICROSECOND DAY_SECOND DAY_MINUTE DAY_HOUR YEAR_MONTH Misollar: 10 soat qo'
shish: SELECT ADDDATE('2019-12-18', INTERVAL 10 hour); Natija: +-----+ | ADDDATE('2019-12-18', INTERVAL 10 hour) | +-----+
-----+ | 2019-12-18 10:00:00 | +-----+ 59 sekund qo'shish: SELECT ADDDATE('2019-12-18 12:22:01', INTERVAL 59 SECOND); Natija: +---
-----+ | ADDDATE('2019-12-18 12:22:01', INTERVAL 59 SECOND) | +-----+ | 2019-12-18 12:
23:00 | +-----+ 10 soat ayirish SELECT ADDDATE('2019-12-18 12:22:01', INTERVAL -10 hour); Natija: +-----
-----+ | ADDDATE('2019-12-18 12:22:01', INTERVAL -10 hour) | +-----+ | 2019-12-18 02:22:01 | +-----
-----+
```

ADDTIME()

Berilgan sanaga vaqt qo'shish uchun ishlatiladi. Formula: ADDTIME(berilgan_sana,qushiladigan_miqdor); SELECT ADDTIME('2019-12-15 13:20:32','2 01:39:27') as natija_sana; Natija: +-----+ | natija_sana | +-----+ | 2019-12-17 14:59:59 | +-----+ Keling shu misolni tahlil qilaylik: '2019-12-15 13:20:32' - bu be
rilgan sana '2 01:39:27' - bu esa berilgan sanaga qo'shilishi kerak bo'lgan vaqt Aslida DATETIME format quyidagicha va format bilan qiymatni ustma ust qo'yamiz: "YYYY-mm-dd HH:i
:ss" 2 01 39 27 Ko'rib turganingizdek, 2 kun, 01- soat, 39-minut, 27 sekund qo'shyapti.

DATE_FORMAT()

DATE_FORMAT() - ushbu funksiya sana va vaqtlarni har xil formatda olishga yordam beradi. Qolip: DATE_FORMAT(date,format); date - berilgan sana format - berilgan sanani o'tkazmoq
chi bo'lgan format turi format - larning turlar: %a Abbreviated weekday name (Sun to Sat) %b Abbreviated month name (Jan to Dec) %c Numeric month name (1 to 12) %D Day of the mo
nth as a numeric value, followed by suffix (1st, 2nd, 3rd, ...) %d Day of the month as a numeric value (01 to 31) %e Day of the month as a numeric value (1 to 31) %f Microsecond
s (000000 to 999999) %H Hour (00 to 23) %h Hour (00 to 12) %I Hour (00 to 12) %i Minutes (00 to 59) %j Day of the year (001 to 366) %k Hour (0 to 23) %l Hour (1 to 12) %M Month
name in full (January to December) %m Month name as a numeric value (00 to 12) %p AM or PM %r Time in 12 hour AM or PM format (hh:mm:ss AM/PM) %S Seconds (00 to 59) %s Seconds
(00 to 59) %T Time in 24 hour format (hh:mm:ss) %U Week where Sunday is the first day of the week (00 to 53) %u Week where Monday is the first day of the week (00 to 53) %V Week
where Sunday is the first day of the week (01 to 53). Used with %X %v Week where Monday is the first day of the week (01 to 53). Used with %X %W Weekday name in full (Sunday to
Saturday) %w Day of the week where Sunday=0 and Saturday=6 %X Year for the week where Sunday is the first day of the week. Used with %V %x Year for the week where Monday is the
first day of the week. Used with %V %Y Year as a numeric, 4-digit value %y Year as a numeric, 2-digit value Misollar: SELECT DATE_FORMAT('2019-12-28 22:23:02', '%W %D %M %Y') as
natija_sana; Natija: +-----+ | natija_sana | +-----+ | Saturday 28th December 2019 | +-----+ SELECT DATE_
FORMAT('2019-12-28 22:23:02', '%d-%M,%Y-yil, soat: %k dan,%i daqiqa, %s sekund utdi ') as natija_sana; Natija: +-----
-----+ | natija_sana | +-----+ | 28-December, 2019-yil, soat: 22 dan,23 daqiqa, 02 sekund utdi | +-----
-----+

DATEDIFF()

DATEDIFF(sana_1, sana_2); Ikkita sanadan necha kun farq borligini aniqlash uchun ishlatiladi. SELECT DATEDIFF('2019-12-22','2019-12-10') as kun_farqi; Natija: +-----+ | ku
n_farqi | +-----+ | 12 | +-----+ SELECT DATEDIFF('2019-02-22','2019-12-10') as kun_farqi; Natija: +-----+ | kun_farqi | +-----+ | -291 | +-----+ SE
LECT DATEDIFF('2019-12-22 12:43:22','2019-12-10') as kun_farqi; Natija: +-----+ | kun_farqi | +-----+ | 12 | +-----+

DATE_SUB() va SUBDATE()

DATE_ADD() funksiyaning teskarisi, yani berilgan sanadan biror vaqtni ayirish uchun DATE_SUB() funksiyadan foydalanamiz. DATE_SUB() va SUBDATE() funksiyalari bir xil vazifa baja
radi. SELECT SUBDATE('2019-12-18 12:22:01', INTERVAL 10 DAY); yoki SELECT DATE_SUB('2019-12-18 12:22:01', INTERVAL 10 DAY); Natija: +-----
-----+ | DATE_SUB('2019-12-18 12:22:01', INTERVAL 10 DAY) | +-----+ | 2019-12-08 12:22:01 | +-----+
-----+ Berilgan sanadan 10 kun ayirdi

MONTHNAME()

MONTHNAME() - funksiyasi berilgan 'YYYY-MM-DD' yoki 'YYYY-MM-DD HH:MM:DD' formatdagi vaqtdan, O'yni ajratib beradi. Natija MATN ko'rinishida bo'ladi SELECT MONTH('2019-12-31') as
son_oy, MONTHNAME('2019-12-31') as matn_oy; Natija: +-----+ | son_oy | matn_oy | +-----+ | 12 | December | +-----+

TIMEDIFF()

TIMEDIFF()-ushbu funksiya ikkita vaqtni orasidagi farqni topish uchun ishlatiladi SELECT TIMEDIFF('12:16:01','10:01:00') farqi; Natija: +-----+ | farqi | +-----+ | 02:
15:01 | +-----+

MAKEDATE()

Yil va yilning biror kunini ko'rsatgan holda sana hosil qilish uchun ishlatiladi. SELECT MAKEDATE(2020, 3); Natija: +-----+ | MAKEDATE(2020, 3) | +-----+
----+ | 2020-01-03 | +-----+ 2020 - yil, yilning 127-kuni. SELECT MAKEDATE(2020, 127); Natija: +-----+ | MAKEDATE(2020, 127) | +-----+
--+ | 2020-05-06 | +-----+

Masalalar

SQL

Copy

1-masala. "payments" jadvalidan: - 2003 - yil, nechta to'lov bo'lgan va necha so'mlik bo'lganini - 2004 - yil dekabr oyida nechta to'lov bo'lgan va necha so'mlik bo'lganini - 20
05 - yildagi barcha dushanba kunlarida, jami necha so'mlik xarid bo'lganini aniqlang - 2004 - yilda , yanvardan to mart oyining oxirigacha jami necha so'mlik xarid bo'lganini a
niqlang 2-masala "orderDate" - buyurtma qilingan sana "shippedDate" - yetkazilgan sana "requiredDate" - gacha yetkazilishi shart bo'lgan sana "orders" jadvalidan: - customerNumb
er=141 bo'lgan mijoz, 2005 - yilda qilgan buyurtmalarining, nechitasi "Shipped" bo'lganini aniqlang - 2003 - yilda eng uzoq vaqtda yetkazib berilgan 10 ta buyurtmani aniqlang - 2
004 - yilda eng qisqa muddatda yetkazilgan 10 ta buyurtmani aniqlang - 2005 - yilda eng kam vaqtda yetkazilgan 10 ta buyurtmalarini va necha kunda yetkazilganini chiqaring