

DB_WORLDX

-- barcha jadvallarni chiqar

show tables;

Tables_in_world_x

city

country

--country jadvaldan barcha ustunni chiqar

select * from country;

Code	Name	Capital	Code2
ABW	Aruba	129	AW
AFG	Afghanistan	1	AF

--faqat 3 ta qatorni chiqar

select * from country limit 3;

Code	Name	Capital	Code2
ABW	Aruba	129	AW
AFG	Afghanistan	1	AF
AGO	Angola	56	AO

-- faqat belgilangan ustunlarni chiqarish

select name from country;

name

Aruba

Afghanistan

Angola

--ustunlarga laqab belgilash

select code as 'davlat kodi',
name as 'davlat nomi' from country limit 5;

davlat kodi	davlat nomi
ABW	Aruba
AFG	Afghanistan
AGO	Angola

--ustunlarga laqab belgilash (2)

select *, code as 'davlat kodi',
name as 'davlat nomi' from country limit 5;

Code	Name	Capital	Code2	davlat kodi	davlat nomi
ABW	Aruba	129	AW	ABW	Aruba
AFG	Afghanistan	1	AF	AFG	Afghanistan

-- nechta qator (row) bor (barcha ustunlar)

select count(*) from country;

count(*)

239

-- laqab berish

select count(*) as 'davlat soni' from country;

davlat soni

239

--faqat name ustuni chiqar va nechta row borligini chiqar

select count(name) from country;

count(name)

239

-- name ustuni 'Uzbekistan' qidir

select * from country where name =
'Uzbekistan';

Code	Name	Capital	Code2
UZB	Uzbekistan	3503	UZ

-- name ustuni 'Korea' qidir

select * from country where name = 'Korea';

No data

-- name ustuni 'South Korea' qidir

select * from country where name = 'South
Korea';

Code	Name	Capital	Code2
KOR	South Korea	2331	KR

--city jadvalidan barcha ustunlar

select * from city;

ID	Name	CountryCode	District	Info
1	Kabul	AFG	Kabul	{"Population": 1780000}
2	Qandahar	AFG	Qandahar	{"Population": 237500}

Savol: O'zbekistonning barcha shaharlarini chiqar

```
-- o'zbekistonning barcha shaharlari
select * from city where CountryCode = "UZB";
```

ID	Name	CountryCode	District	Info
3503	Toskent	UZB	Toskent Shahri	{"Population": 2117500}
3504	Namangan	UZB	Namangan	{"Population": 370500}
3505	Samarkand	UZB	Samarkand	{"Population": 2117500}

Savol: O'zbekistonning barcha shahrlar soni?

```
-- o'zbekistonning barcha shaharlari soni
select count(*) from city where CountryCode = "UZB";
```

count(*)
17

```
--uzb ning toshkent shahri
select * from city where CountryCode = "UZB"
and `name` = 'Toskent'
```

ID	Name	CountryCode	District	Info
3503	Toskent	UZB	Toskent Shahri	{"Population": 2117500}

Savol: Rossiya va O'zbekistonning barcha shaharlarini chiqar

DB NORTHWIND

```
--list price ustuni boyicha sortirovka
(ascending)
select product_name,list_price
from products order by list_price asc
```

product_name	list_price
Northwind Traders Corn	1.2
Northwind Traders Green Beans	1.2
Northwind Traders Pears	1.3
Northwind Traders Peaches	1.5

```
--list price ustuni boyicha sortirovka
(descending)
select product_name,list_price
from products order by list_price desc
```

product_name	list_price
Northwind Traders Marmalade	81
Northwind Traders Dried Apples	53

Savol: Products tablitsadan Category ustunini alfabet bilan sortirovka qil

```
--faqat category ustunini alfabet bilan
sortirovka
```

```
select category from products order by
category
```

category
Baked Goods & Mixes
Baked Goods & Mixes
Baked Goods & Mixes
Baked Goods & Mixes
Beverages

```
--faqat category ustunini alfabet bilan
sortirovka + remove duplicate
--(faqat 1ta ustunga ishledi)
```

```
select distinct category from products
order by category
```

category
Baked Goods & Mixes
Beverages
Candy
Canned Fruit & Vegetables

Savol: kategoriyasi 'Pasta' va 'Oil' bolgan barcha tovarlarni chiqar

```
--kategoriyasi 'pasta' va 'oil' bolgan
tovarlar
```

```
select * from products
where category = 'pasta' or category = 'oil'
```

supplier_ids	id	product_code	product_name	description	standard_cost	list_price
10	5	NWTO-5	Northwind Traders Olive Oil	null	16.0125	21.35
1	56	NWTP-56	Northwind Traders Gnocchi	null	28.5	38
1	57	NWTP-57	Northwind Traders Ravioli	null	14.625	19.5

```
--kategoriyasi 'pasta' va 'oil' bolgan
tovarlar v2
```

```
select * from products
WHERE category IN ('pasta','oil')
```

supplier_ids	id	product_code	product_name	description	standard_cost	list_price
10	5	NWTO-5	Northwind Traders Olive Oil	null	16.0125	21.35
1	56	NWTP-56	Northwind Traders Gnocchi	null	28.5	38
1	57	NWTP-57	Northwind Traders Ravioli	null	14.625	19.5

Savol: narxi 10\$ dan katta bolgan tovarlarni chiqar

```
--narxi 10$ dan katta bolgan tovarlar
select product_name,list_price
from products where list_price > 10
order by list_price
```

product_name	list_price
Northwind Traders Brownie Mix	12.49
Northwind Traders Chocolate	12.75
Northwind Traders Mustard	13

Savol: eng arzon tovarni chiqar

```
--eng arzon tovarni chiqarish
select product_name,list_price
from products order by list_price
asc limit 1
```

product_name	list_price
Northwind Traders Green Beans	1.2

```
--eng arzon va eng qimmat va obshi summasi
```

```
select product_name,
min(list_price), max(list_price),
sum(list_price) from products
```

product_name	min(list_price)	max(list_price)	sum(list_price)
Northwind Traders Chai	1.2	81	713.06

Savol: narxi 30\$ - 40\$ oraliqda bolgan tovarlarni chiqar

```
--narxi 30$ - $40 oraliqda bolga tovarlar
select product_name,list_price
from products where list_price > 30
and list_price < 40
```

product_name	list_price
Northwind Traders Fruit Cocktail	39
Northwind Traders Gnocchi	38
Northwind Traders Mozzarella	34.8

```
--2 variant
```

```
select product_name,list_price
from products where list_price
between 30 and 40
```

product_name	list_price
Northwind Traders Dried Pears	30
Northwind Traders Curry Sauce	40
Northwind Traders Fruit Cocktail	39
Northwind Traders Gnocchi	38
Northwind Traders Mozzarella	34.8

Savol: narxi 20\$ - 50\$ oraliqdan tashqari tovarlarni chiqar

```
--narxi 20$ - $50 oraliqdan tashqari bolgan tovarlar
select product_name,list_price
```

```
from products
where NOT (list_price > 20
and list_price < 50)
```

product_name	list_price
Northwind Traders Chai	18
Northwind Traders Syrup	10
Northwind Traders Chocolate Biscuits Mix	9.2
Northwind Traders Marmalade	81

```
--2 variant
```

```
select product_name,list_price
from products
where list_price not
between 20 and 50
```

product_name	list_price
Northwind Traders Chai	18
Northwind Traders Syrup	10
Northwind Traders Chocolate Biscuits Mix	9.2
Northwind Traders Marmalade	81

DB_WORLDX

```
-- 'as' bilan boshlangan barcha shaharlar
```

```
select * from city
where name like 'as%'
```

ID	Name	CountryCode	District	Info
618	Asyut	EGY	Asyut	{"Population": 343498}
624	Assuan	EGY	Assuan	{"Population": 219017}
652	Asmara	ERI	Maekel	{"Population": 431000}

Savol: 'T' bilan boshlangan shaharlar sonini top

```
-- 't' bilan boshlangan barcha shaharlar soni
select count(*) from city where name like 't%'
count(*)
```

255

```
-- 't' bilan tugagan barcha shaharlar
select * from city where name like '%t'
```

ID	Name	CountryCode	District	Info
3	Herat	AFG	Herat	{"Population": 186800}
8	Utrecht	NLD	Utrecht	{"Population": 234323}
21	Amersfoort	NLD	Utrecht	{"Population": 126270}

Savol: 't' bilan boshlangan va 't' bilan tugagan barcha shaharlarni chiqar

```
-- 't' bilan boshlangan va 't' bilan tugagan barcha shaharlar
select * from city
```

where name like '%t' and name like 't%'

ID	Name	CountryCode	District	Info
50	Tiaret	DZA	Tiaret	{"Population": 100118}
3415	Tokat	TUR	Tokat	{"Population": 99500}
3503	Toskent	UZB	Toskent Shahri	{"Population": 2117500}

-- 2 variant

select * from city where name like 't%t'

ID	Name	CountryCode	District	Info
50	Tiaret	DZA	Tiaret	{"Population": 100118}
3415	Tokat	TUR	Tokat	{"Population": 99500}
3503	Toskent	UZB	Toskent Shahri	{"Population": 2117500}

Savol: quyidagi sql ni 'WHERE IN' ga o'gir

```
select count(*) from city
where countrycode = 'UZB'
or countrycode = 'TUR'
or countrycode = 'RUS'
```

savol: UZB, TUR, RUS dan tashqari barcha shaharlar sonini top

--UZB,TUR,RUS dan tashqari barcha shaharlar soni

```
select count(*) from city
where countrycode NOT IN ('UZB','TUR','RUS')
```

count(*)
3811

CREATE DATABASE

--yangi baza yaratish
create database school

--students tablitsasiga yangi data kiritish
insert into students
(first_name,last_name,gender,age,grade)
values ('Jack','Potter','M',14,7)

insert into students
(first_name,last_name,gender,age,grade)
values ('Marie','Tomson','F',13,6)

insert into students
(first_name,last_name,gender,age,grade)
values ('Sulton','Ahmedov','M',15,8)

id	first_name	last_name	gender	age	grade	date
1	Jack	Potter	M	14	7	Mon Nov 07 2022 16:06:58 GMT+0500 (Ўзбекистан, стандартное время)
2	Marie	Tomson	F	13	6	Mon Nov 07 2022 16:10:11 GMT+0500 (Ўзбекистан, стандартное время)
3	Sulton	Ahmedov	M	15	8	Mon Nov 07 2022 16:11:11 GMT+0500 (Ўзбекистан, стандартное время)

--ataylab notogri kirit

```
insert into students
(first_name,last_name,gender,age,grade)
values ('Alishe','Uqozov','F',11,4)
select * from Students
```

7	Alishe	Uqozov	M	11	4	Mon Nov 07 2022 16:27:04 GMT+0500 (Ўзбекистан, стандартное время)
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-- o'zgartirish

```
update students set first_name = 'Alisher',
last_name = 'Uzoqov' where id = 7
select * from Students
```

7	Alisher	Uzoqov	M	11	4	Mon Nov 07 2022 16:27:04 GMT+0500 (Ўзбекистан, стандартное время)
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--tablitsaga yangi ustun kiritish

```
alter table students
add school_no int null;
```

select * from Students

id	first_name	last_name	gender	age	grade	date	school_no
1	Jack	Potter	M	14	7	Mon Nov 07 2022 16:06:58 GMT+0500 (Ўзбекистан, стандартное время)	null
2	Marie	Tomson	F	13	6	Mon Nov 07 2022 16:10:11 GMT+0500 (Ўзбекистан, стандартное время)	null

Savol: har bir studentga maktab nomerini kirit (update)

```
update students set school_no = 17
where id = 1
update students set school_no = 25
where id = 2
```

**savol: 1. Jami nechta qizbola talabalar borligini
2. jami nechta ogil bollar borligini top**

--sanani formatini ozgartirish 1

```
select first_name, last_name,
date_format(date,'%Y-%m-%d %H:%i:%s')
as 'sana' from students
```

first_name	last_name	sana
Jack	Potter	2022-11-07 16:06:58
Marie	Tomson	2022-11-07 16:10:11
Sulton	Ahmedov	2022-11-07 16:11:11

--sanani formatini ozgartirish 2

```
select first_name, last_name,
date_format(date,'%Y, %M, %D')
as 'sana' from students
```

first_name	last_name	sana
Jack	Potter	2022, November, 7th
Marie	Tomson	2022, November, 7th

```
--bir necha ustunlarni birlashtirish
select concat(first_name, ' ', last_name)
as 'fio',
concat(school_no, ' - maktab')
as 'maktab' from students
```

fio	maktab
Jack Potter	17 - maktab
Marie Tomson	25 - maktab