

SQL Basics

Table - person

```
1.create table person (  
  person_id serial primary key,  
  name varchar(40),  
  age integer,  
  height_cm integer,  
  city varchar(40),  
  favorite_color varchar(20)  
);
```

3. Insert Person

```
insert into person (  
  name,  
    age,  
  height_cm,  
  city,  
  favorite_color)
```

```
  values (  
    'Jake',  
    32,  
    150,  
    'Orlando',  
    'red'),  
(  
  'Jenny',  
  23,  
  143,  
  'New York',  
  'purple'),  
(  
  'David',
```

```
45,  
195,  
'San Francisco',  
'black'),  
(  
'Max',  
28,  
178,  
'Las Vegas',  
'brown'),  
(  
'Cindy',  
50,  
135,  
'Moab',  
'pink');
```

5. select * from person
order by height_cm desc;

7. select * from person
order by height_cm asc;

8. select * from person
where age > 20;

9. select * from person
where age = 18;

10. select * from person
where age < 20 or age > 30;

11. select * from person
where age != 27

12. select * from person
where favorite_color != 'red';

13. select * from person
where favorite_color != 'red' and favorite_color != 'blue';

14. select * from person
where favorite_color = 'orange' or favorite_color = 'green';

15. select * from person
where favorite_color in ('Orange', 'green', 'blue');

16. select * from person
where favorite_color in ('yellow', 'purple');

Table Orders =====

Create table orders

```
create table orders(  
order_id serial primary key,  
person_id integer,  
product_name varchar(50),  
product_price float,  
quantity integer);
```

```
values (  
    '1',  
    'Pizza',  
    14.50,  
    2), (  
    1,  
    'drinks',  
    3.99,  
    8), (  
  
    2,  
    'sandwich',  
    7.50,  
    2), (  

```

```
3,  
'fries',  
4.35,  
1), (  
4,  
'burrito',  
6.89,  
2);
```

5. select * from orders;
6. select sum(quantity) from orders;
7. select sum(quantity * product_price) from orders;
8. select sum(quantity * product_price) from orders
group by person_id = 1;

Table Artist =====

1. insert into artist(name, artist_id)

values ('Maxim Leonid', 300),('Alsu', 301),('Eva', 302);
2. select * from artist
order by name desc
limit 10;
3. select * from artist
order by name asc
limit 10;
4. select * from artist
where name like 'Black%'
5. select * from artist

where name like '%Black%'

Table Employee =====

1. select first_name, last_name from employee
where city = 'Calgary';
2. select first_name, last_name, birth_date from employee
order by birth_date desc
limit 1;
3. select first_name, last_name, birth_date from employee
order by birth_date asc
limit 1;
4. select * from employee
where reports_to = 2;
5. select count(city) as people_in_Lethbridge from employee
where city = 'Lethbridge';

Table Invoice =====

1. select count(*) as order_from_the_USA from invoice
where billing_country = 'USA';
2. select max(total) from invoice;
3. select min(total) from invoice;
4. select * from invoice
where total > 5;
5. Select count (*) from invoice
where total < 5
6. Select count (*) from invoice

where billing_state in ('TX', 'CA', 'AZ');

7. select AVG(total) from invoice;

8. select sum(total) from invoice;

9. update invoice
set total = 24
where invoice_id = 5;

10. delete * from invoice
where invoice_id = 1;