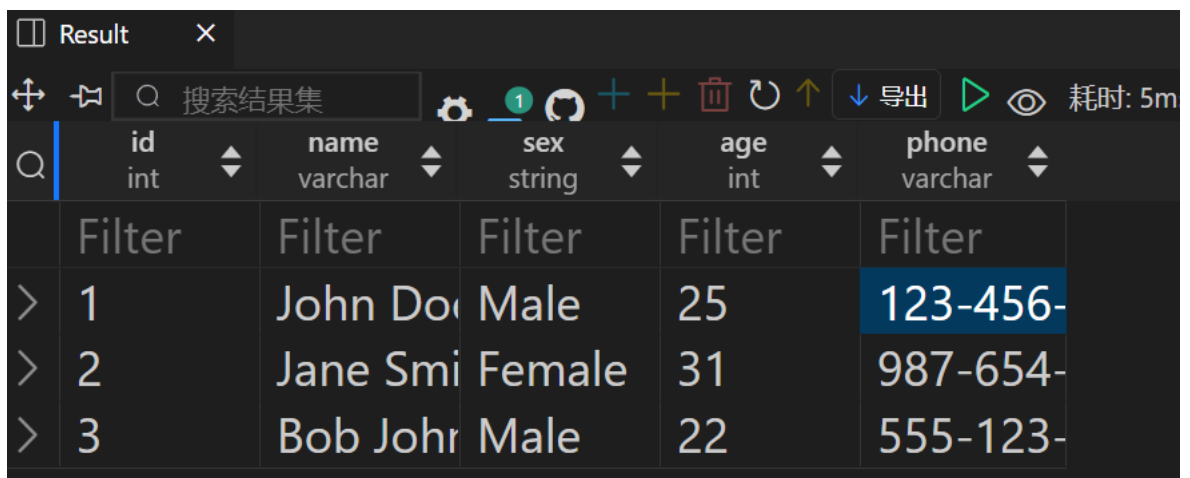


1.
代码 : CREATE DATABASE zkx;
USE zkx;

```
CREATE TABLE user (  
    id INT AUTO_INCREMENT PRIMARY KEY,  
    name VARCHAR(100),  
    sex ENUM('Male', 'Female'),  
    age INT,  
    phone VARCHAR(15)  
);
```

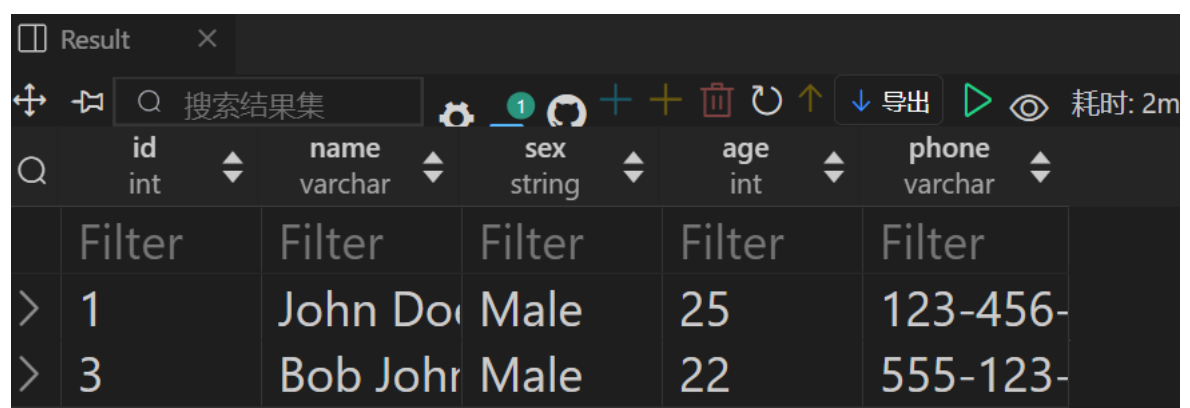
-- 插入数据

```
INSERT INTO user (name, sex, age, phone) VALUES  
( 'John Doe', 'Male', 25, '123-456-7890'),  
( 'Jane Smith', 'Female', 31, '987-654-3210'),  
( 'Bob Johnson', 'Male', 22, '555-123-4567');
```



	id int	name varchar	sex string	age int	phone varchar
>	1	John Doe	Male	25	123-456-
>	2	Jane Smith	Female	31	987-654-
>	3	Bob Johnson	Male	22	555-123-

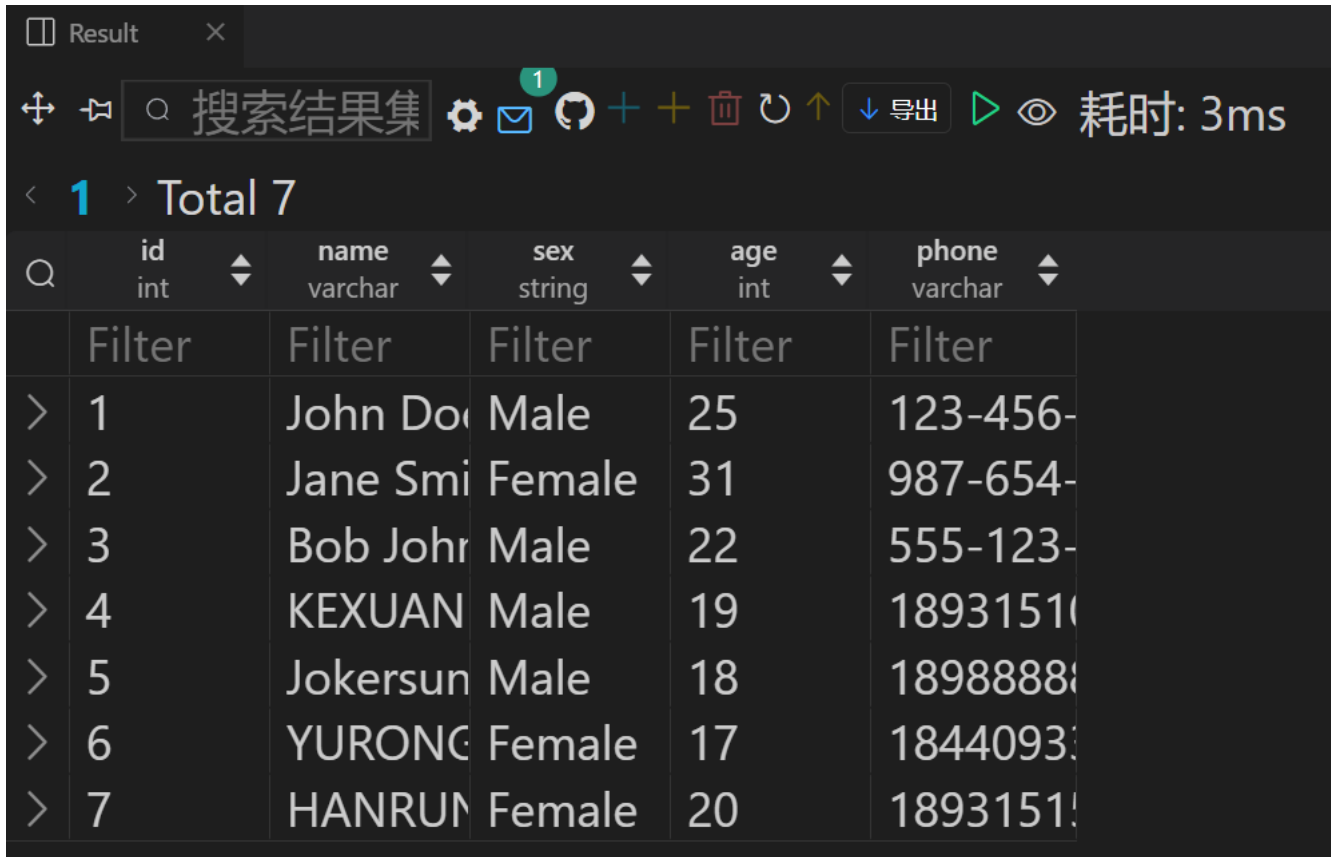
2.
代码 : SELECT *FROM user WHERE age BETWEEN 20 AND 30;



	id int	name varchar	sex string	age int	phone varchar
>	1	John Doe	Male	25	123-456-
>	3	Bob Johnson	Male	22	555-123-

3.

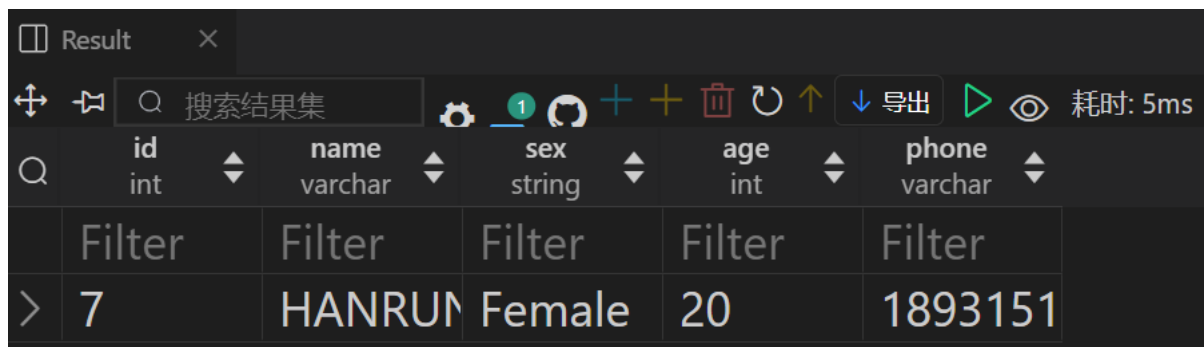
代码：INSERT INTO user(name,sex,age,phone) VALUES
('KEXUAN ZHOU','Male',19,'18931510750'),
('Jokersun','Male',18,'18988888888'),
('YURONG ZHOU','Female',17,'18440933786'),
('HANRUN ZHOU','Female',20,'18931515555');



	id int	name varchar	sex string	age int	phone varchar
>	1	John Doe	Male	25	123-456-
>	2	Jane Smith	Female	31	987-654-
>	3	Bob Johnson	Male	22	555-123-
>	4	KEXUAN	Male	19	18931510
>	5	Jokersun	Male	18	18988888
>	6	YURONG	Female	17	18440933
>	7	HANRUN	Female	20	18931515

4.

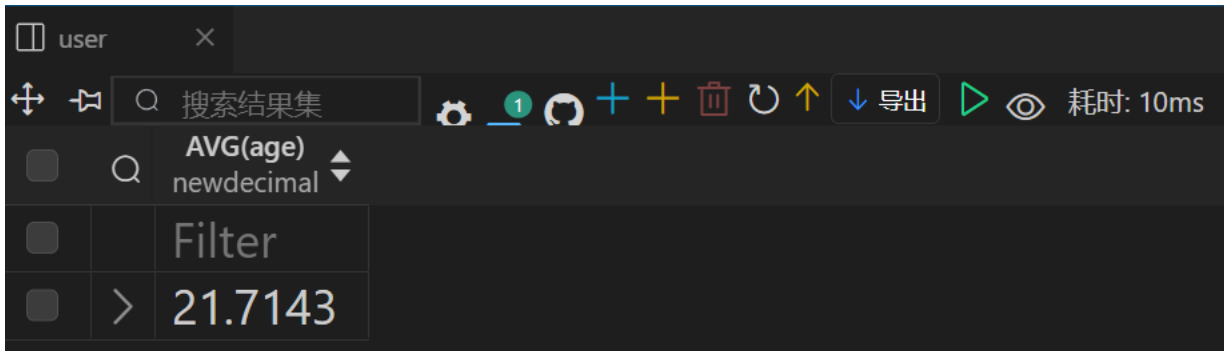
代码：SELECT *FROM user
WHERE age BETWEEN 20 AND 30 AND name LIKE '%ZHOU%'
ORDER BY age DESC;



	id int	name varchar	sex string	age int	phone varchar
>	7	HANRUN	Female	20	18931515

5.

代码：SELECT AVG(age) FROM user;



The screenshot shows a database query result for the SQL statement 'SELECT AVG(age) FROM user;'. The result is displayed in a table with one column, 'AVG(age)', and one row with the value '21.7143'. The table is titled 'user' and the column is 'AVG(age)'. The data type of the column is 'newdecimal'. The table has a 'Filter' button and a 'Greater Than' symbol (>) next to the value '21.7143'. The interface includes a search bar, a toolbar with various icons, and a status bar indicating the execution time is 10ms.

AVG(age)
21.7143

6

代码：CREATE TABLE team(
id INT AUTO_INCREMENT PRIMARY KEY,
teamName VARCHAR(100)

);

CREATE TABLE score(
id INT AUTO_INCREMENT PRIMARY KEY,
teamid INT,
userid INT,
score INT,
FOREIGN KEY(teamid) REFERENCES team(id),
FOREIGN KEY(userid) REFERENCES user(id)

);

7.

代码：INSERT INTO team (teamName) VALUES ('ECNU');

INSERT INTO score (teamid, userid, score) VALUES

(1, 1, 10),

(1, 2, 20),

(1, 3, 5),

(1, 4, 50),

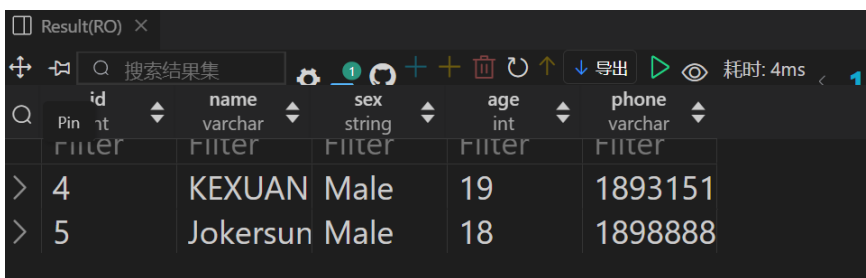
(1, 5, 6);

SELECT u.* FROM user u

JOIN score s ON u.id = s.userid

JOIN team t ON s.teamid = t.id

WHERE t.teamName = 'ECNU' AND u.age <20;

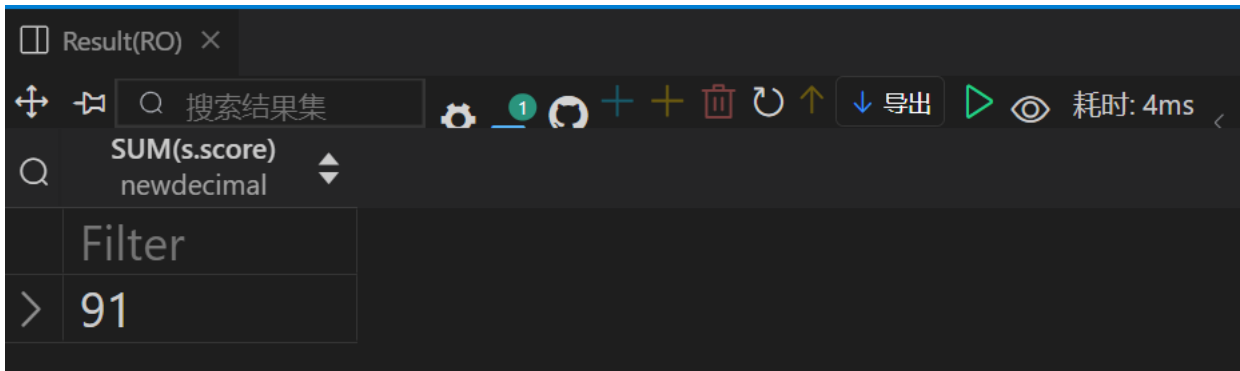


The screenshot shows a database query result for the SQL statement 'SELECT u.* FROM user u JOIN score s ON u.id = s.userid JOIN team t ON s.teamid = t.id WHERE t.teamName = 'ECNU' AND u.age <20;'. The result is displayed in a table with columns 'id', 'name', 'sex', 'age', and 'phone'. The table is titled 'Result(RO)'. The columns have data types: 'id' is 'int', 'name' is 'varchar', 'sex' is 'string', 'age' is 'int', and 'phone' is 'varchar'. The table has a 'Filter' button for each column. The data shows two rows: one with id 4, name KEXUAN, sex Male, age 19, and phone 1893151; and another with id 5, name Jokersun, sex Male, age 18, and phone 1898888. The interface includes a search bar, a toolbar with various icons, and a status bar indicating the execution time is 4ms.

id	name	sex	age	phone
4	KEXUAN	Male	19	1893151
5	Jokersun	Male	18	1898888

8.

代码 : SELECT SUM(s.score) FROM score s
JOIN team t on s.teamid = t.id
WHERE t.teamName = 'ECNU';



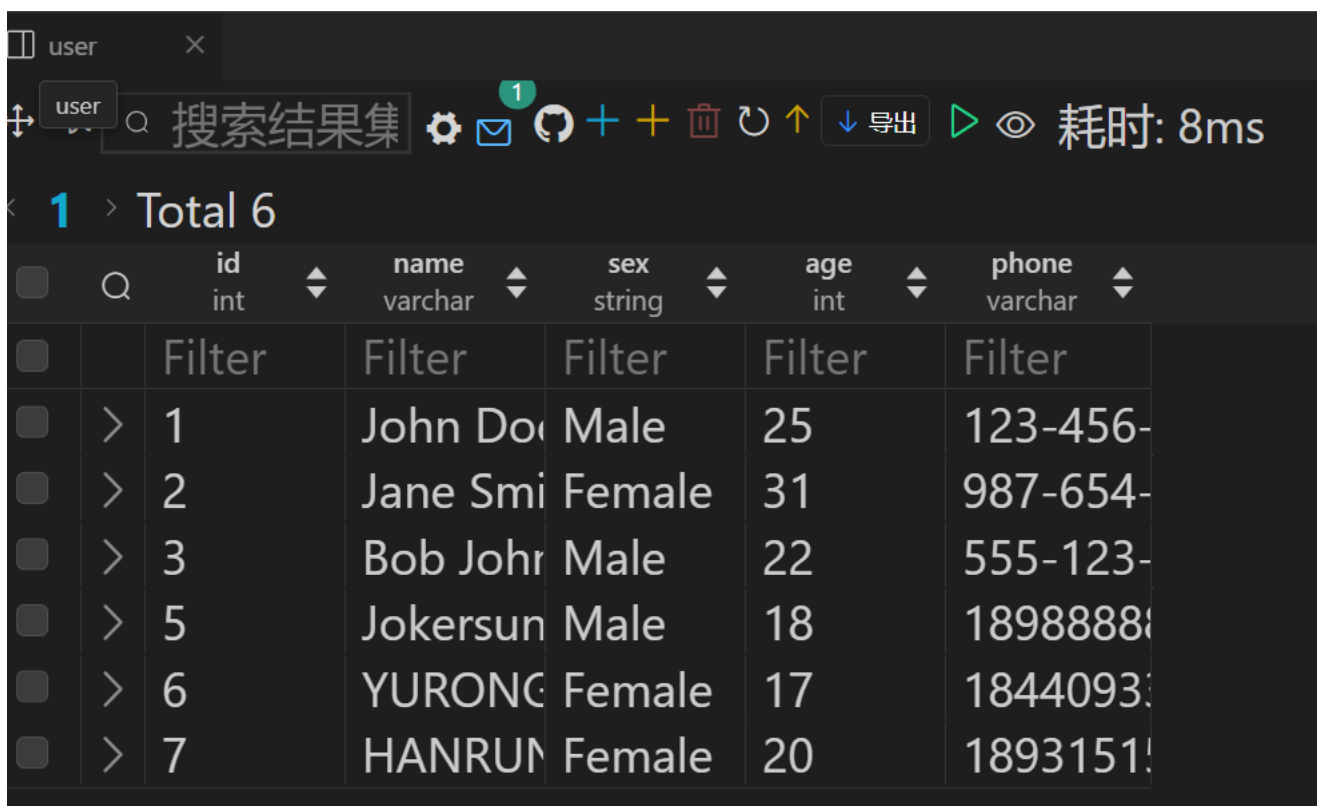
The screenshot shows a database query result in a dark-themed interface. The title bar indicates the result is for a query named 'Result(RO)'. The search bar contains '搜索结果集'. The query text is 'SUM(s.score) newdecimal'. The result is displayed in a table with one row and one column, showing the value '91'. The execution time is '耗时: 4ms'.

Filter
> 91

9.

代码 : DELETE FROM score WHERE userid = '4';

DELETE FROM user WHERE name = 'KEXUAN ZHOU';
SELECT * FROM user;



The screenshot shows a database query result for the 'user' table. The title bar indicates the result is for a query named 'user'. The search bar contains '搜索结果集'. The query text is 'SELECT * FROM user'. The result is displayed in a table with 6 rows and 5 columns: id, name, sex, age, and phone. The execution time is '耗时: 8ms'.

	id int	name varchar	sex string	age int	phone varchar
Filter	Filter	Filter	Filter	Filter	Filter
> 1	1	John Doe	Male	25	123-456-
> 2	2	Jane Smith	Female	31	987-654-
> 3	3	Bob Johnson	Male	22	555-123-
> 5	5	Jokersun	Male	18	18988888
> 6	6	YURONG	Female	17	18440933
> 7	7	HANRUM	Female	20	18931515

