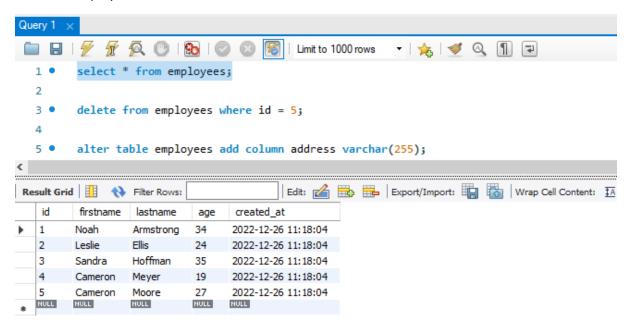
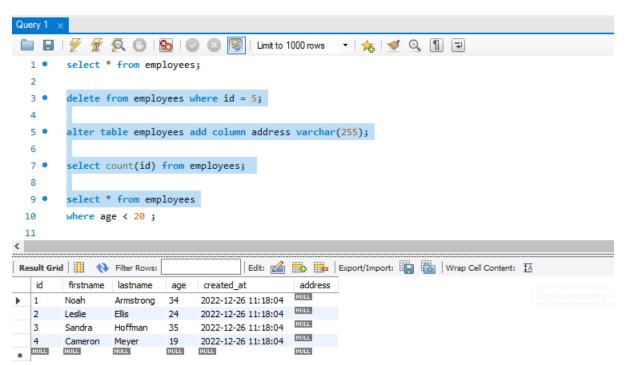
1.

2.

Select all employees



After Delete row and Add column



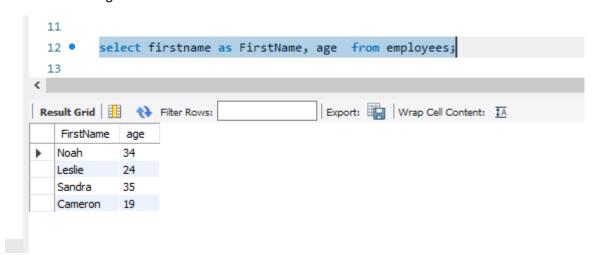
Age < 20

```
8
  9 •
          select * from employees
  10
          where age < 20 ;
  11
  12 •
         select firstname as FirstName, age from employees;
  13
| Edit: 💪 🖶 🖶 | Export/Import: 📳 🐻 | Wrap Cell Content: 🏗
        firstname lastname age
                                                   address
                                created at

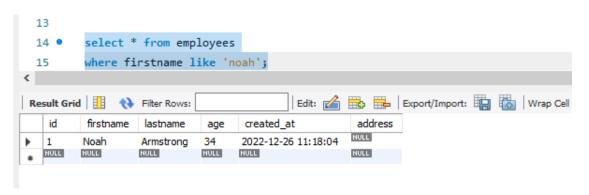
    4 Came
    NULL NULL

                                                  NULL
         Cameron
                  Meyer
                           19
                                 2022-12-26 11:18:04
                  NULL
                          NULL
                                                  NULL
```

First Name and age



Find name



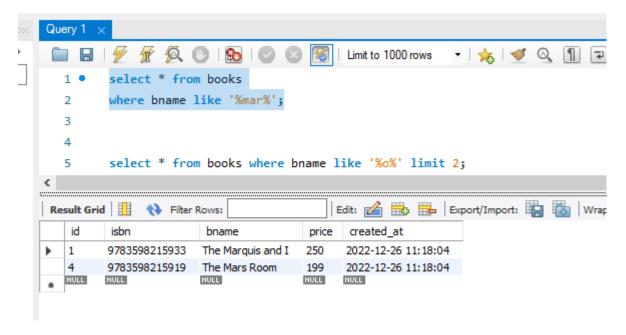
Update Name

```
16
        update employees set firstname = "Neil" where id = 1;
Action Output
       Time
                 Action
      1 11:18:04 create database bookstore1
2 11:18:04 use bookstore1
      3 11:18:04 create table employees (id int auto_increment, firstname varchar(20), lastname var
4 11:18:04 create table books (id int auto_increment, isbn varchar(13) not null, bname varcha
      5 11:18:04 create table sell_histories (id int auto_increment, isbn varchar(13), emp_id int, price
6 11:18:04 INSERT INTO employees(firstname, lastname, age) values ('Noah', 'Armstrong', 34), ('Le
       7 11:18:04 INSERT INTO books(isbn, bname, price) values ('9783598215933', 'The Marquis and I

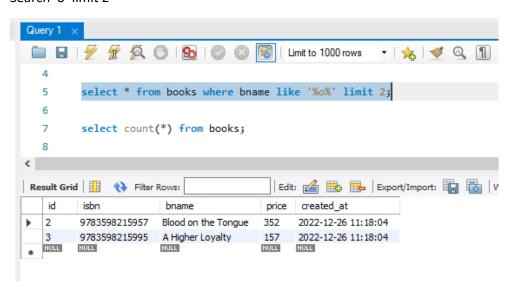
    8 11:22:02 select *from employees LIMIT 0, 1000

     9 11:26:28 select *from employees LIMIT 0, 1000
2
10 11:28:08 delete from employees where id = 5
     11 11:28:08 alter table employees add column address varchar(255)
12 11:28:08 select count(id) from employees LIMIT 0, 1000
    13 11:28:08 select *from employees LIMIT 0, 1000
14 11:35:29 select *from employees where age < 20 LIMIT 0, 1000</p>
    15 11:36:07 select firstname as FirstName, age from employees LIMIT 0, 1000
     16 11:53:32 select *from employees where firstname like 'hoah' LIMIT 0, 1000
0
   17 11:53:45 update employees set firstname = "Neil" where id = 1
```

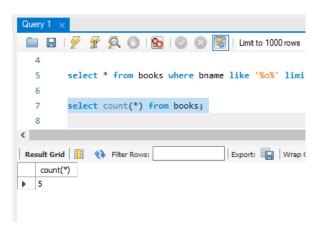
3 search 'mar'



Search 'o' limit 2



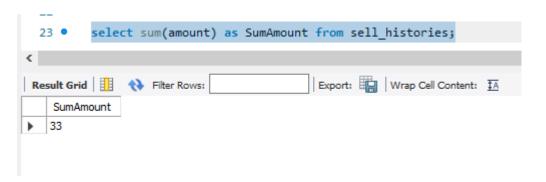
Count



Insert data and show

```
insert into sell_histories(isbn, emp_id, price, amount) values
  10
          ('9783598215933', 1, 250, 5),
          ('9783598215957', 1, 352, 1),
  11
          ('9783598215766', 3, 289, 2),
  12
          ('9783598215957', 4, 352, 4),
  13
          ('9783598215933', 4, 250, 6),
  14
          ('9783598215919', 2, 199, 2),
  15
          ('9783598215933', 3, 250, 3),
  16
          ('9783598215995', 2, 157, 2),
  17
          ('9783598215919', 3, 199, 7),
  18
          ('9783598215995', 1, 157, 1);
  19
  20
          select * from sell histories;
  21 •
                                           | Edit: 🚄 🖶 | Export/Import: 识 👸 | Wrap Cell
created at
          ishn
                        emp_id
                                      amount
                                price
                                250
                                      5
                                              2022-12-26 12:53:25
   1
         9783598215933
         9783598215957
                                      1
                                              2022-12-26 12:53:25
   2
                        1
                                352
   3
         9783598215766
                                289
                                      2
                                              2022-12-26 12:53:25
         9783598215957 4
                                      4
                                              2022-12-26 12:53:25
                                352
                                250
                                              2022-12-26 12:53:25
         9783598215933 4
                                      6
   6
         9783598215919 2
                                199
                                     2
                                              2022-12-26 12:53:25
   7
         9783598215933 3
                                250
                                      3
                                              2022-12-26 12:53:25
         9783598215995 2
   8
                                157
                                      2
                                              2022-12-26 12:53:25
   9
         9783598215919 3
                                199
                                      7
                                              2022-12-26 12:53:25
         9783598215995 1
                                157
                                      1
                                              2022-12-26 12:53:25
   10
   NULL
         NULL
                        NULL
                               NULL
                                     NULL
                                              NULL
```

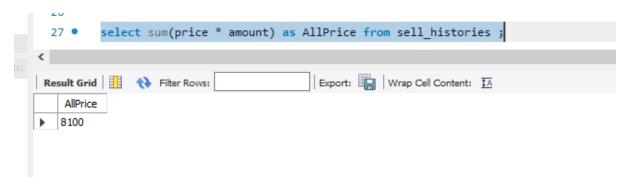
Sum amount



Show isbn

```
24
         select isbn from sell_histories;
 25 •
 26
         select sum(price * amount) as AllPrice from sell_histories;
 27 •
                                       Export: Wrap Cell Content: IA
isbn
   9783598215933
   9783598215957
   9783598215766
   9783598215957
   9783598215933
   9783598215919
   9783598215933
   9783598215995
   9783598215919
   9783598215995
```

Sum price



4 console log data

```
let sqlCommand = {
                              isbn: "select isbn from sell_histories;",
sumPrice: "select sum(price * amount) as AllPrice from sell_histories;"
PROBLEMS 22 OUTPUT DEBUG CONSOLE TERMINAL GITLENS
                                 12/26/2022 11:16 AM
                                                                                                                         1328 5_ExpressDatabase.js
PS C: \begin{tabular}{l} PS C: \begin{tabula
 select * from books where bname like '%mar%';
                  isbn bname price created_at
9783598215933 The Marquis and I
9783598215919 The Mars Room 199
                                                                                                                            250 Mon Dec 26 2022 09:00:03 GMT+0700 (เวส
Mon Dec 26 2022 09:00:03 GMT+0700 (เวสาฮินโตจีน)
                                                                                                                                                         Mon Dec 26 2022 09:00:03 GMT+0700 (เวลาอินโดจีน)
 select * from books where bname like '%o%' limit 2;
id isbn bname price created_at
9783598215957 Blood on the Tongue 352
9783598215995 A Higher Loyalty 157
select sum(amount) as SumAmount from sell_histories;
                                                                                                                                                        Mon Dec 26 2022 09:00:03 GMT+0700 (เวลาอินโดจีน)
                                                                                                                                                          Mon Dec 26 2022 09:00:03 GMT+0700 (เวลาอินโดจีน)
 SumAmount
select isbn from sell_histories;
9783598215933
9783598215957
9783598215766
9783598215957
9783598215933
9783598215919
9783598215933
9783598215995
9783598215919
select sum(price * amount) as AllPrice from sell_histories;
AllPrice
8100
Connection closed!
PS C:\Users\6352300197\Desktop\LearnBackEndNodeJS\src_week\week2\HomeWork2> []
```

```
const mysql = require('mysql2');
let connection = mysql.createConnection({
   host: "localhost",
    user: "root",
    password: "12345678",
    database: "bookstore",
    port : 3306
Let sqlCommand = {
    selectMar: "select * from books where bname like '%mar%';",
    selectNameOLimit2: "select * from books where bname like '%o%' limit 2;",
    sumAmount: "select sum(amount) as SumAmount from sell_histories;",
    isbn: "select isbn from sell_histories;",
    sumPrice: "select sum(price * amount) as AllPrice from sell_histories ;"
const queryData = () => {
    Object.keys(sqlCommand).forEach((key) => {
       let sql = sqlCommand[key];
       connection.query(sql, function(err, results, fields) {
            console.log(sql);
            console.log(results);
const queryDataText = () => {
   Object.keys(sqlCommand).forEach((key) => {
       Let sql = sqlCommand[key];
        connection.query(sql, function(err, rows, columns, fields) {
            if (err) throw err;
            console.log(sql);
            let text = "";
            columns.forEach((column) => {
                text += column.name + "\t";
            console.log(text);
                Let text = "";
                Object.keys(row).forEach((key) => {
                   text += row[key] + "\t";
               console.log(text);
connection.connect(function(err) {
   if (err) throw err;
    console.log("Connected!");
    queryDataText();
    setTimeout(() => {
       connection.end();
        console.log("Connection closed!");
    }, 5000);
```

5.

```
const express = require("express");
const app = express();
const mysql = require("mysql2");
const connection = mysql.createConnection({
    host: 'localhost',
user: 'root',
password: '12345678',
     database: 'bookstore',
     port: 3306
connection.connect();
app.get("/query-1", (req, res) => {
    connection.query("select bname, isbn from books where bname like '%0%' limit 2", (err, rows, fields) => {
          if (err) console.log(err);
          console.log(rows);
res.json(rows);
app.get("/query-2", (req, res) => {
    connection.query("select sum(amount) as total from sell_histories", (err, rows, fields) => {
          if (err) console.log(err);
          console.log(rows);
res.json(rows);
app.get("/query-3", (req, res) => {
     connection.query("select distinct isbn from sell_histories", (err, rows, fields) => {
          if (err) console.log(err);
          console.log(rows);
          res.json(rows);
app.get("/query-4", (req, res) => {
    connection.query("select sum( amount*price ) as sell_total from sell_histories", (err, rows, fields) => {
        if (err) console.log(err);
          console.log(rows);
res.json(rows);
app.listen(3000, () => {
    console.log("Server started");
```