

MySQL nodes slip solution

1) Create a Node.js file that demonstrates create Movie database and table in MySQL.

```
// Import required module
const mysql = require('mysql');

// Create a connection to MySQL
const con = mysql.createConnection({
  host: "localhost",
  user: "root",
  password: "Admin@123",
});

// Connect to MySQL server
con.connect(function(err) {
  if (err) throw err;
  console.log("Connected to MySQL!");

  // Create the 'movie' database
  con.query("CREATE DATABASE IF NOT EXISTS movie", function (err, result) {
    if (err) throw err;
    console.log("Database 'movie' created successfully!");

    // Switch to 'movie' database
    con.changeUser({ database: 'movie' }, function(err) {
      if (err) throw err;
      console.log("Switched to 'movie' database!");

      // Create 'mov' table
      const sql = "CREATE TABLE mov(m_no INT PRIMARY KEY, mname VARCHAR(255))";
      con.query(sql, function (err, result) {
        if (err) throw err;
        console.log("Table 'mov' created successfully!");

        // Close MySQL connection
        con.end(function(err) {
          if (err) throw err;
          console.log("MySQL connection closed!");
        });
      });
    });
  });
});
```

Output-

```
PS C:\Users\admin\Documents\nodedatabase> node moviedb.js
Connected to MySQL!
Database 'movie' created successfully!
Switched to 'movie' database!
Table 'mov' created successfully!
MySQL connection closed!
PS C:\Users\admin\Documents\nodedatabase> █
```

To check output-

Open mysql on system terminal

mysql -u root -p

```
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 35
Server version: 8.0.36 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| db       |
| db1      |
| information_schema |
| movie    |
| mysql    |
| performance_schema |
| sys      |
+-----+
7 rows in set (0.00 sec)

mysql> use movie;
Database changed
mysql> show tables;
+-----+
| Tables_in_movie |
+-----+
| mov              |
+-----+
1 row in set (0.00 sec)
```

Slip12-

Create a node.js file that Select all records from the "customers" table, and display the result object on console.

```
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 36
Server version: 8.0.36 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database cust;
Query OK, 1 row affected (0.01 sec)

mysql> use cust;
Database changed
mysql> create table customer(cno int primary key,cname varchar(20));
Query OK, 0 rows affected (0.03 sec)

mysql> insert into customer values(101,'Pravin Sable');
Query OK, 1 row affected (0.01 sec)

mysql> insert into customer values(102,'Satish kale');
Query OK, 1 row affected (0.01 sec)

mysql>
```

Customer.js

```
var mysql=require('mysql');

var con=mysql.createConnection({
  host:"localhost",
  user:"root",
  password:"Admin@123",
  database:"cust",
})
```

```
con.connect(function(err){
  if(err) throw err;
  console.log("connected");
  var sql="select * from customer";
  con.query(sql,function(err,result,fields){
    if(err) throw err;
    console.log(result);
  })
})
```

OUTPUT-

```
PS C:\Users\admin\Documents\nodedatabase> node cust1.js
connected
[
  RowDataPacket { cno: 101, cname: 'Pravin Sable' },
  RowDataPacket { cno: 102, cname: 'Satish kale' }
]
```

Slip 18-Create a node.js file that Select all records from the "customers" table, and find the customers whose name starts from 'A'.

1) open mysql in terminal

mysql -u root -p

2) create database cust;

3) use cust;

4) create customer table

create table customer(cno int primary key,cname varchar(20))

5) insert at least five record in table

insert into customer values(101,'pravin sable');

6) Display table

```
mysql> select * from customer;
+-----+-----+
| cno | cname          |
+-----+-----+
| 101 | Pravin Sable  |
| 102 | Satish kale   |
| 103 | Anil          |
| 104 | Ashok         |
+-----+-----+
4 rows in set (0.00 sec)
```

7. Go to VS Code create file slip18.js

```
var mysql=require('mysql');

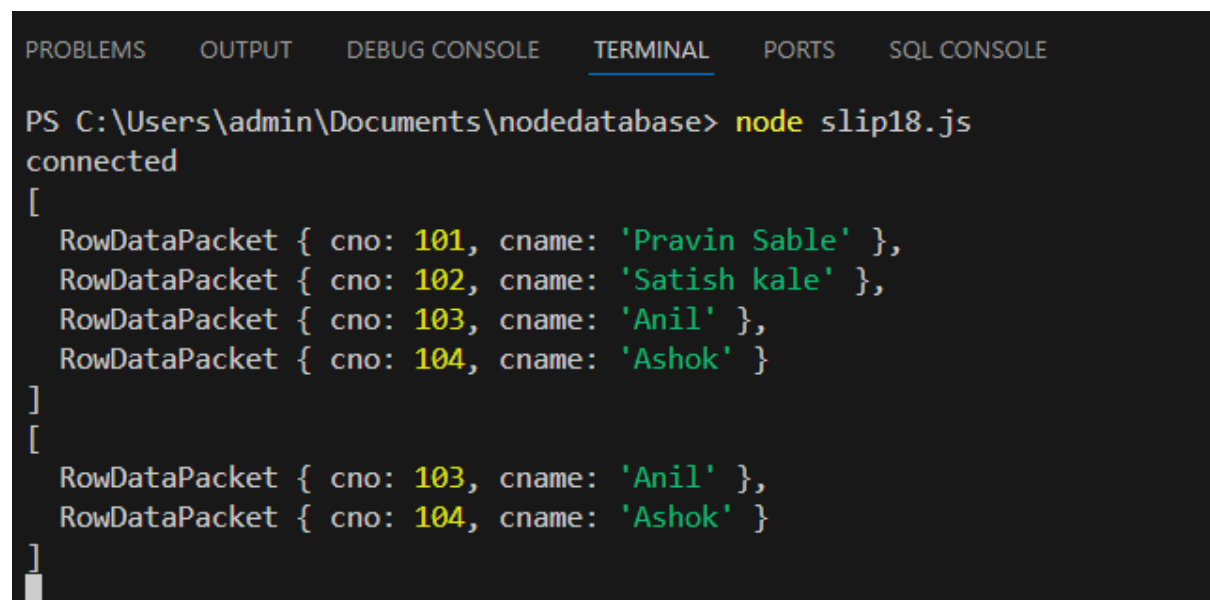
var con=mysql.createConnection({
  host:"localhost",
  user:"root",
  password:"Admin@123",
  database:"cust",
});

con.connect(function(err){
  if(err) throw err;
  console.log("connected");
  var sql="select * from customer";
  con.query(sql,function(err,result,fields){
```

```
    if(err) throw err;
    console.log(result);
  });
  const sql1 = "select * from customer where cname LIKE 'A%'";
  con.query(sql1,function(err,result,fields){
    if(err) throw err;
    console.log(result);
  });
})
```

8.npm install mysql

Output



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  SQL CONSOLE

PS C:\Users\admin\Documents\nodedatabase> node slip18.js
connected
[
  RowDataPacket { cno: 101, cname: 'Pravin Sable' },
  RowDataPacket { cno: 102, cname: 'Satish kale' },
  RowDataPacket { cno: 103, cname: 'Anil' },
  RowDataPacket { cno: 104, cname: 'Ashok' }
]
[
  RowDataPacket { cno: 103, cname: 'Anil' },
  RowDataPacket { cno: 104, cname: 'Ashok' }
]
```

Slip3-Create a node.js file that Select all records from the "Teacher" table, and find the Teachers whose salary is greater than 20,000.

```
mysql> create database teacher;
Query OK, 1 row affected (0.01 sec)
```

```
mysql> use teacher;
Database changed
```

```
mysql> create table Teacher
  -> (tno int primary key,
  -> tname varchar(20),
  -> salary float);
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> insert into Teacher values(1,'sachin',15000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Teacher values(2,'Anil',25000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Teacher values(3,'sunil',19000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Teacher values(4,'pradeep',29000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> select * from Teacher;
```

tno	tname	salary
1	sachin	15000
2	Anil	25000
3	sunil	19000
4	pradeep	29000

4 rows in set (0.00 sec)

slip3.js

```
var mysql=require('mysql');

var con=mysql.createConnection({
  host:"localhost",
  user:"root",
  password:"Admin@123",
  database:"teacher",
```

```
});  
  
con.connect(function(err){  
    if(err) throw err;  
    console.log("connected");  
    const sql1 = "select * from Teacher where salary>20000";  
    con.query(sql1,function(err,result,fields){  
        if(err) throw err;  
        console.log(result);  
    });  
});  
})
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE

PS C:\Users\admin\Documents\nodedatabase> node slip3.js

connected

[

 RowDataPacket { tno: 2, tname: 'Anil', salary: 25000 },

 RowDataPacket { tno: 4, tname: 'pradeep', salary: 29000 }

]