MySQL with Node.js

1. Calling the Stored Procedure

Step 1: Create the Stored Procedure on your MySQL server

And test for the Stored procedure execution also

```
call get_UserData();
```

Step 2: Front end application and Call this procedure using Node.js

```
let mysql = require('mysql');
let connect = require('./conn.js');
let connection = mysql.createConnection(connect);
let sqlProc = 'call get_UserData()';
connection.query(sqlProc,(error,results) => {
    if(error){
        return console.error(error.message);
    }
    console.log(results[0]);
});
connection.end();
```

```
let conn = {
   host : 'localhost',
   user : 'root',
   password : 'dsps@123',
   database : 'testDb'

};
module.exports = conn;
```

```
PS C:\Users\Anil Kumar-DSPS> node .\getUserData.js
[
   RowDataPacket { Id: 1, Username: 'anil', Password: 'anil' },
   RowDataPacket { Id: 2, Username: 'Ajay', Password: 'ajay' },
   RowDataPacket { Id: 3, Username: 'Gitam', Password: 'Gitam' },
   RowDataPacket { Id: 4, Username: 'Gitam', Password: 'Gitam' }
]
```

Example with Filters

Step1: First let;s create the stored procedure on your server

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `get_UserDetailsUsingID`(
    a_Id int
)

BEGIN
    select * from userData where Id = a_Id;
END
```

Step 2: Go to front end application and call this procedure, save it into an object

```
let mysql = require('mysql');
let connect = require('./conn.js');
let connection = mysql.createConnection(connect);
let sqlProc = 'call get_UserDetailsUsingID(?)';
let inputParams = ['1'];
connection.query(sqlProc,inputParams,(error,results) => {
    if(error){
        return console.error(error.message);
    }
    console.log(results[0]);
});
connection.end();
```

```
PS C:\Users\Anil Kumar-DSPS> node .\getUserDetails.js
[ RowDataPacket { Id: 1, Username: 'anil', Password: 'anil' } ]
PS C:\Users\Anil Kumar-DSPS> node .\getUserDetails.js
[ RowDataPacket { Id: 1, Username: 'anil', Password: 'anil' } ]
PS C:\Users\Anil Kumar-DSPS>
```

Task: Write the Procedure for insertion and call the procedure from the Node.js application

```
let mysql = require('mysql');
let connect = require('./conn.js');
let connection = mysql.createConnection(connect);
let sqlProc = 'call insert_UserData(?,?)';
let inputParams = ['Abhi','Abhi'];
connection.query(sqlProc,inputParams,(error,results) =>{
    if(error){
        return console.error(error.message);
    }
    console.log(results[1]);
});
connection.end();
```

```
PS C:\Users\Anil Kumar-DSPS> node .\getUserDetails.js
[ RowDataPacket { Id: 3, Username: 'Gitam', Password: 'Gitam' } ]
OkPacket {
  fieldCount: 0,
   affectedRows: 1,
   insertId: 0,
   serverStatus: 2,
   warningCount: 0,
   message: '',
   protocol41: true,
   changedRows: 0
}
```

Task: Write the Procedure for Delete and call the procedure from the Node.js application

Task: Write the Procedure for Update and call the procedure from the Node.js application

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `update_Userdata`(
    a_username varchar(50),
    a_password varchar(50)
)

BEGIN

Declare a_id int default 0;
    set a_id = (select id from userData where username = a_username);
    update userData set Password = a_password where Id = a_Id;
END
END
```

```
let mysql = require('mysql');
let connect = require('./conn.js');
let connection = mysql.createConnection(connect);
let sqlProc = 'call update_Userdata(?,?)';
let inputparams = ['anil', 'Anil-Dsps'];
connection.query(sqlProc,inputparams,(error,results)=>{
    if(error){
        return console.error(error.message);
    }
    console.log(results);
});
connection.end();
```

```
PS C:\Users\Anil Kumar-DSPS> node .\updateRow.js
OkPacket {
  fieldCount: 0,
   affectedRows: 1,
   insertId: 0,
   serverStatus: 34,
   warningCount: 0,
   message: '',
   protocol41: true,
   changedRows: 0
}
```

Change the Procedure on MySQL server and again execute the application

```
○ CREATE DEFINER=`root`@`localhost` PROCEDURE `update_Userdata`(
      a_username varchar(50),
      a_password varchar(50)
  )

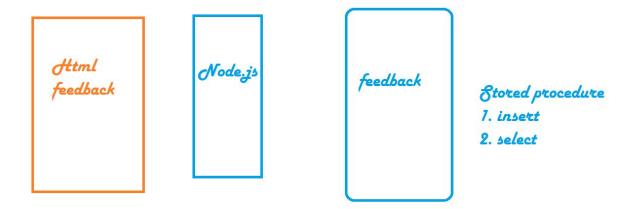
⊖ BEGIN

      Declare flag varchar(50);
      Declare a id int default 0;
      set a_id = (select id from userData where username = a_username);
          update userData set Password = a_password where Id = a_Id;
          set flag = 'record is updated';
          select flag;
      else
          set flag = 'record not found';
          select flag;
      end if;
  END
 PS C:\Users\Anil Kumar-DSPS> node .\updateRow.js
   [ RowDataPacket { flag: 'record is updated' } ],
  OkPacket {
    fieldCount: 0,
    affectedRows: 0,
    insertId: 0,
     serverStatus: 34,
    warningCount: 0,
    message: '',
     protocol41: true,
```

Task: Create a Small Feedback form with two input fields

- 1. Emailld
- 2. Feedback

First of all you need to create the table on a database with few fields.



Two packages to be installed in your application

- a. npm install express
- b. npm install body-parser