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| Arjun Mehta | K036 | B.Tech CSE (Cybersecurity) |
| 24/10/2024 |  |  |

PART B

Aim: - Write a Program to work with NodeJS and Mysql

1. Write a Program to create a Database “Employee\_DB” using Nodejs Script.
2. Write a Program to create a Table “Employee” using Nodejs Script.

Table Columns

Employee\_Id,Employee\_Name,Employee\_Address, Employee\_Position and Employee\_Salary

1. Write a Program to insert 7 Employee Details into a Table “Employee” using Nodej Script and Each Employee\_Id should not be Null and should be Unique.
2. Write a Program to display all Employee Details from Table Employee.
3. Write a Program to Display Employee\_Name, Employee\_Position and Employee\_Salary whos Salary is more than 10000 in ascending order.
4. Create a one more Table call Employee\_Profile where columns are Employee\_Id, Employee\_Profile and Employee\_Name.
5. Write a program to join these two table and display Employee\_Name , Employee\_Position ,Employee\_Profile and Employee\_Salary based on Employee\_Id.

[Note:-Write your code using Nodejs Script]

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COURSE: Web Programming Practical Experiment: 9

Observation and Learning: -

- Write your observation and learning

CODE:

1.

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| var mysql = require('mysql2'); var con = mysql.createConnection({ host: 'localhost', user: 'root', password: 'root', port: 3306  }); con.connect(function(err)  { if (err) throw err; console.log("Connected!"); con.query("CREATE DATABASE k055\_mysql", function (err, result) { if (err) throw err; console.log("Database created");  });  }); |

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con.query("CREATE DATABASE Employee\_DB", function (err, result) { if (err) throw err; console.log("Database created");

});

});

2.

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| --- |
| var mysql = require('mysql2'); var con = mysql.createConnection({ host: 'localhost', user: 'root', password: 'root', port: 3306,  database: 'k055\_mysql'  }); con.connect(function(err) { if (err) throw err; console.log("Connected!");  var sql = "CREATE TABLE Employee (" +  "Employee\_Id INT AUTO\_INCREMENT PRIMARY KEY, " +  "Employee\_Name VARCHAR(255), " +  "Employee\_Address VARCHAR(255), " +  "Employee\_Position VARCHAR(255), " +  "Employee\_Salary INT)"; con.query(sql, function (err, result) { if (err) throw err; console.log("Table created");  });  }); |

3.

var mysql= require('mysql2'); var con = mysql.createConnection({

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| host : 'localhost', user : 'root', password : 'root', port: 3306, database : 'k055\_mysql'  }); con.connect(function(err){ if (err) throw err;  }); console.log("Connected!");  var sql = "INSERT INTO EMPLOYEE (Employee\_Name, Employee\_Position,  Employee\_Salary) VALUES " +  "('PRADEEP', 'H.R', 86000), " +  "('ASHOK', 'MANAGER', 52028), " +  "('PAVAN KUMAR', 'ASST MANAGER', 28000), " +  "('SANTHOSH', 'STORE MANAGER', 9500), " +  "('THAMAN', 'GENERAL MANAGER', 26000), " +  "('SUMIT', 'WORKER', 500), " +  "('TEJAS', 'EMPLOYEE', 2000)";;    con.query(sql, function (err) { if (err) throw err; console.log(con.query('Select \* from EMPLOYEE'));  }); |

4.

|  |
| --- |
| var mysql= require('mysql2'); var con = mysql.createConnection({ host : 'localhost', user : 'root', password : 'root', port: 3306, database : 'k055\_mysql'  }); con.connect(function(err){ if (err) throw err;  }); console.log("Connected!"); var sql = "select \* from employee; ";  con.query(sql, function (err, result) { if (err) throw err; console.log(result);  }); |

5.

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| var mysql = require('mysql'); var con = mysql.createConnection({ host :  'localhost', user : 'root', password :  'root', port: 3308, database : 'mysql'  }); con.connect(); console.log("Connected!");    var sql = "SELECT NAME,POSITION FROM EMP"  ; con.query(sql, function (err, result) { if (err) throw err; console.log(result);  }); |

6.

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| --- |
| var mysql= require('mysql2'); var con = mysql.createConnection({ host : 'localhost', user : 'root', password : 'root', port: 3306,  database : 'k055\_mysql'  }); con.connect(function(err){ if (err) throw err;  });  console.log("Connected!"); var sql = "create table employee\_profile("+  "Employee\_Id INT AUTO\_INCREMENT PRIMARY KEY,"+  "Employee\_Profile VARCHAR(255),"+  "Employee\_Name VARCHAR(255))";  con.query(sql, function (err, result) { if (err) throw err; |

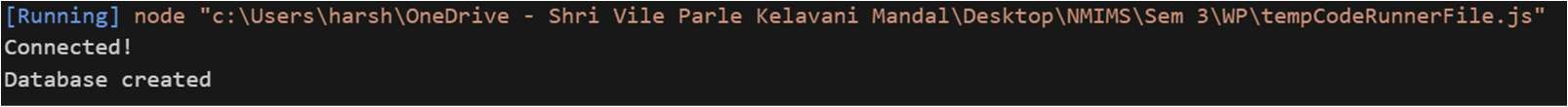
7.

|  |
| --- |
| var mysql = require('mysql2'); var con = mysql.createConnection({ host: 'localhost', user: 'root', password: 'root', port: 3306,  database: 'k055\_mysql'  }); con.connect(function(err) { if (err) throw err;  }); console.log("Connected!");  var sql = "SELECT " + "e.Employee\_Id, " +  "e.Employee\_Name, " +  "p.Employee\_Profile " +  "FROM " +  "EMPLOYEE e " +  "LEFT JOIN " +  "Employee\_Profile p ON e.Employee\_Id = p.Employee\_Id;";  con.query(sql, function (err, result) { if (err) throw err; console.log(result);  }); |

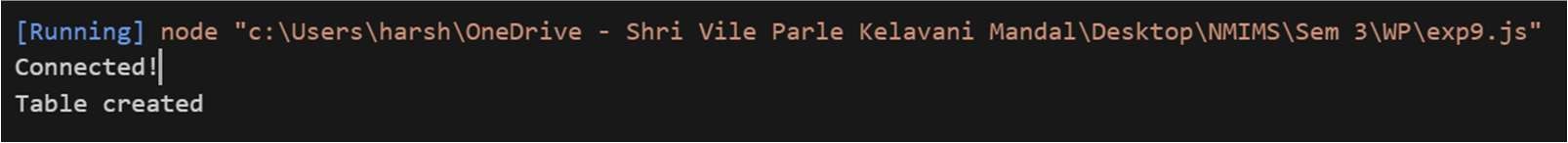
Answer the Questions: -

Output:

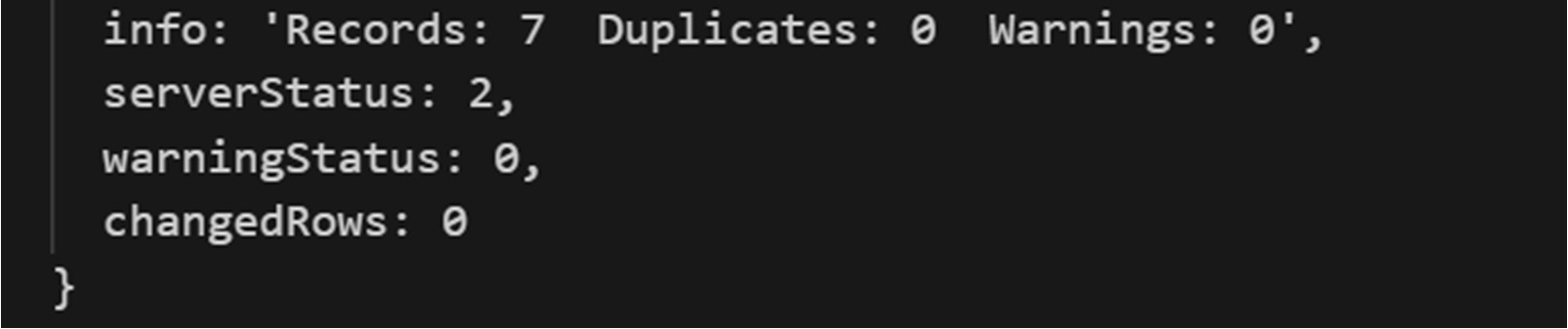
1.



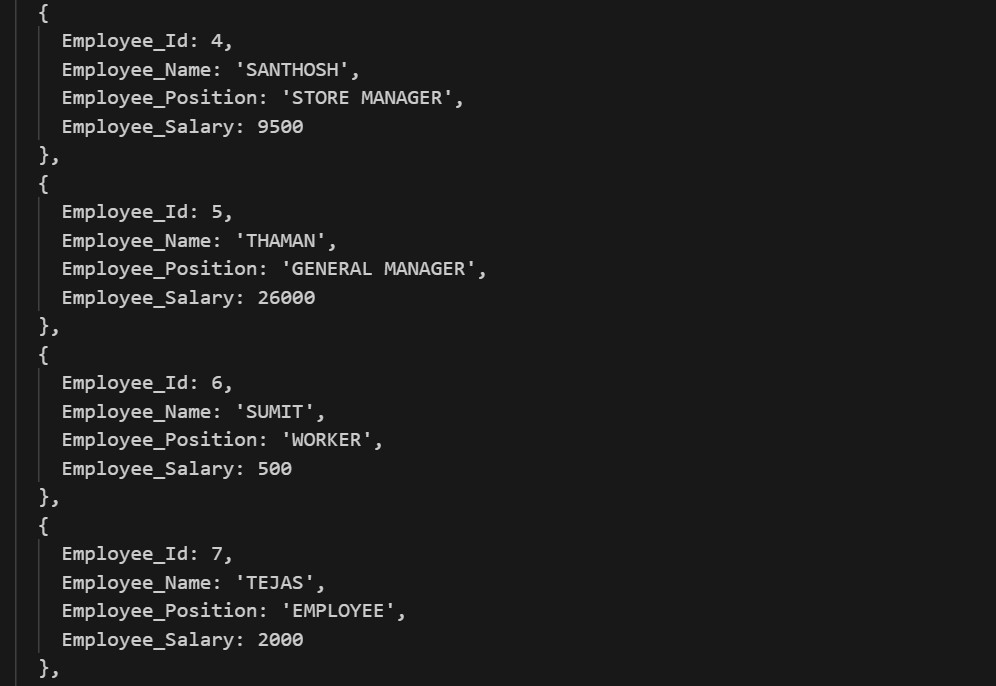
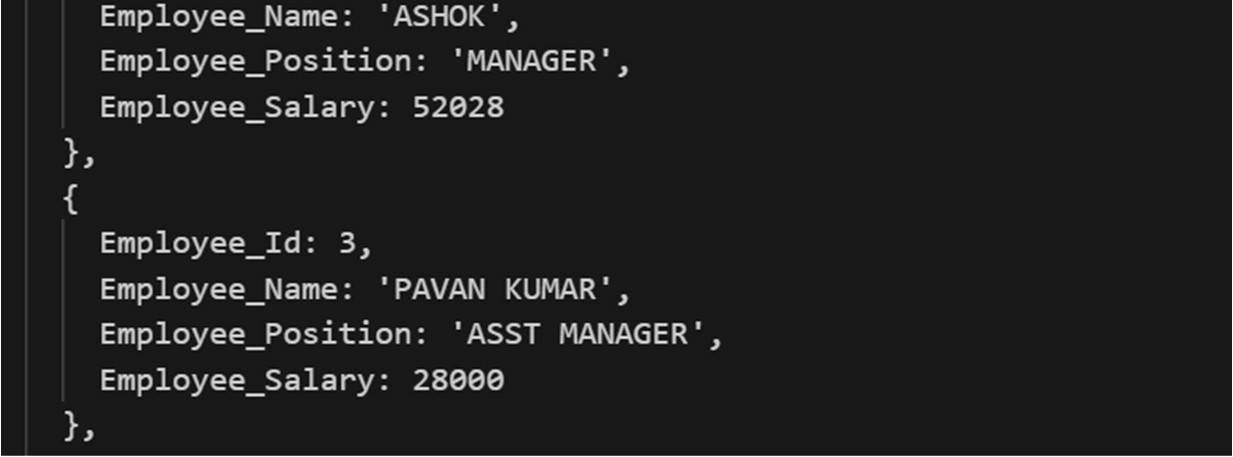
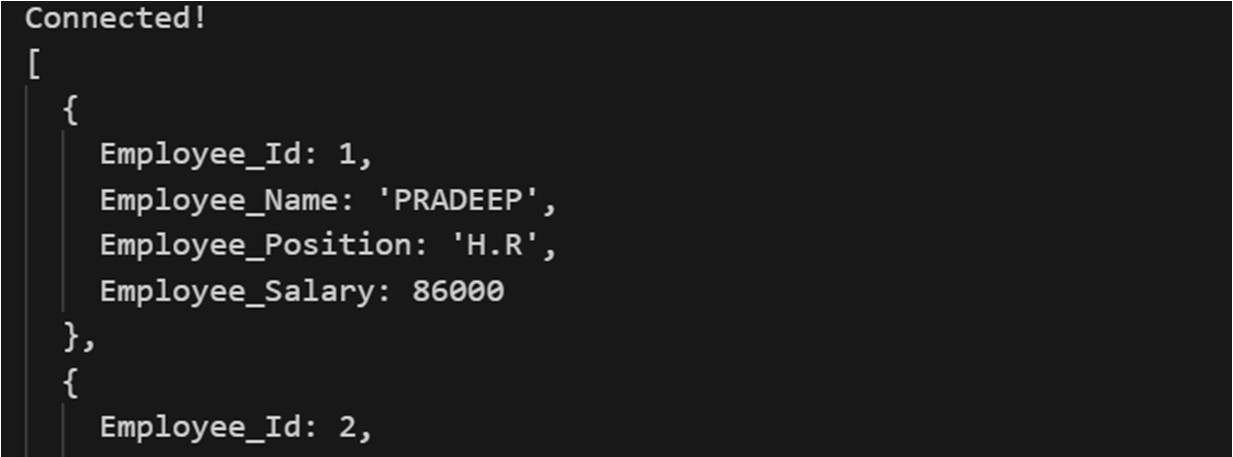
2.



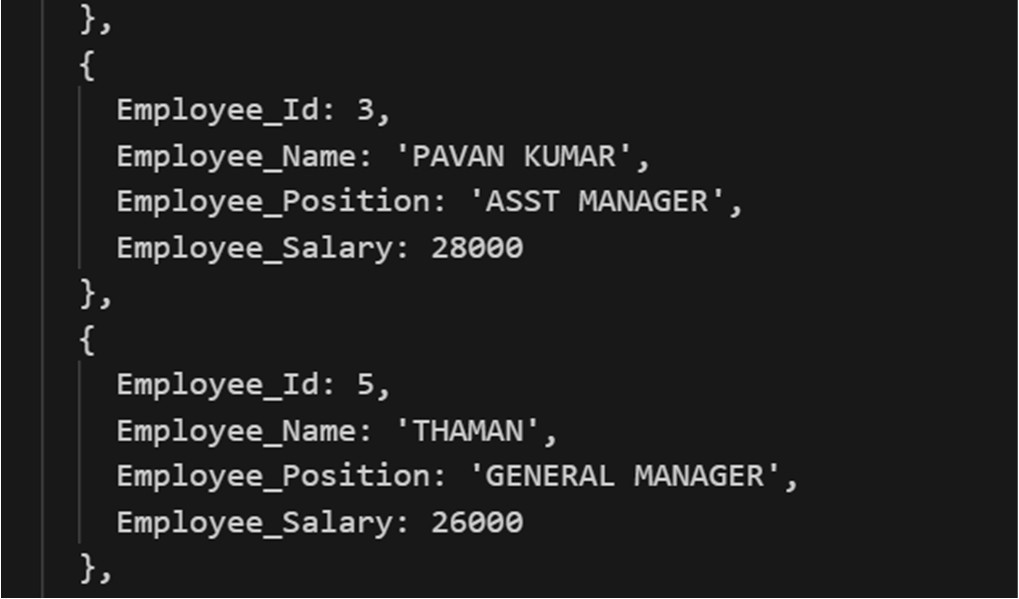
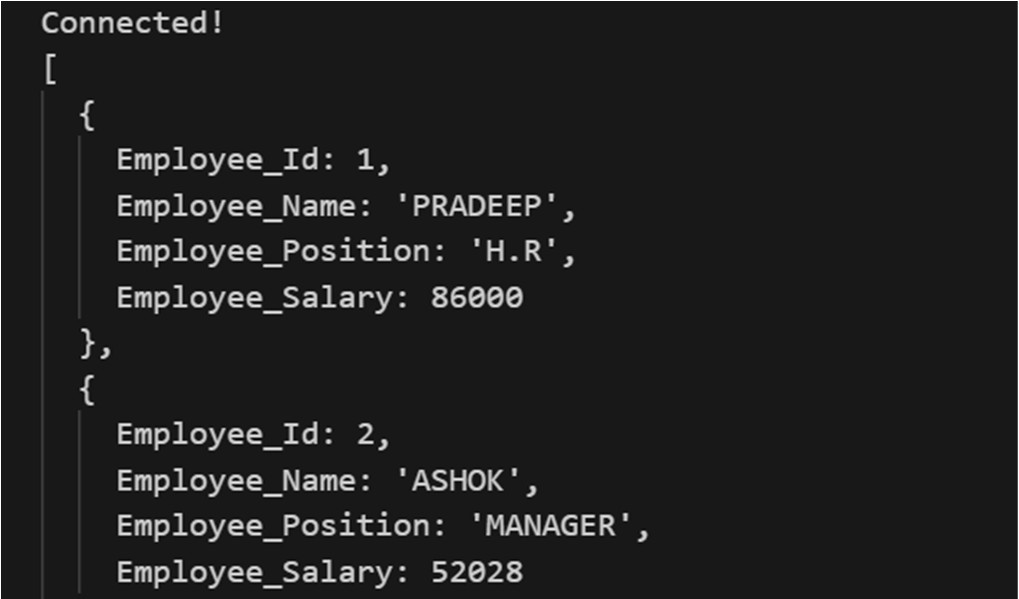
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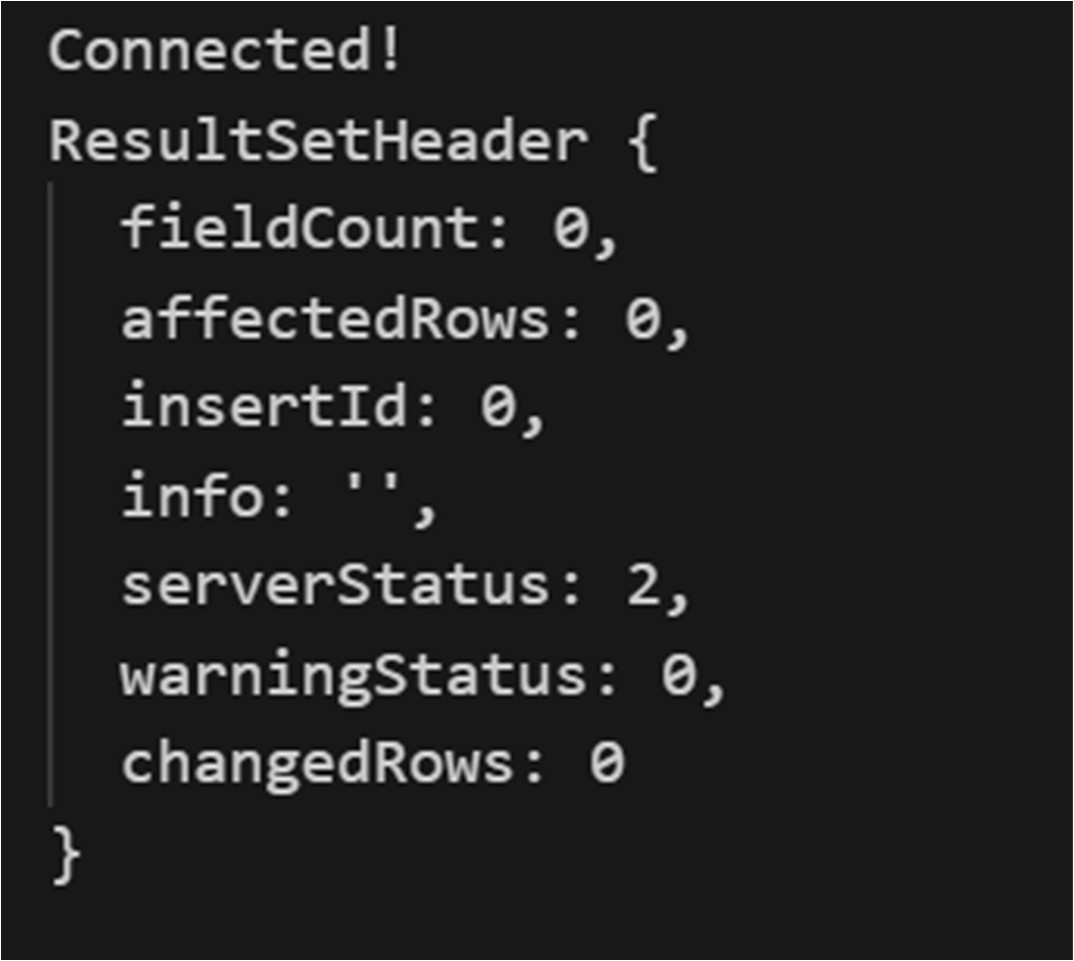
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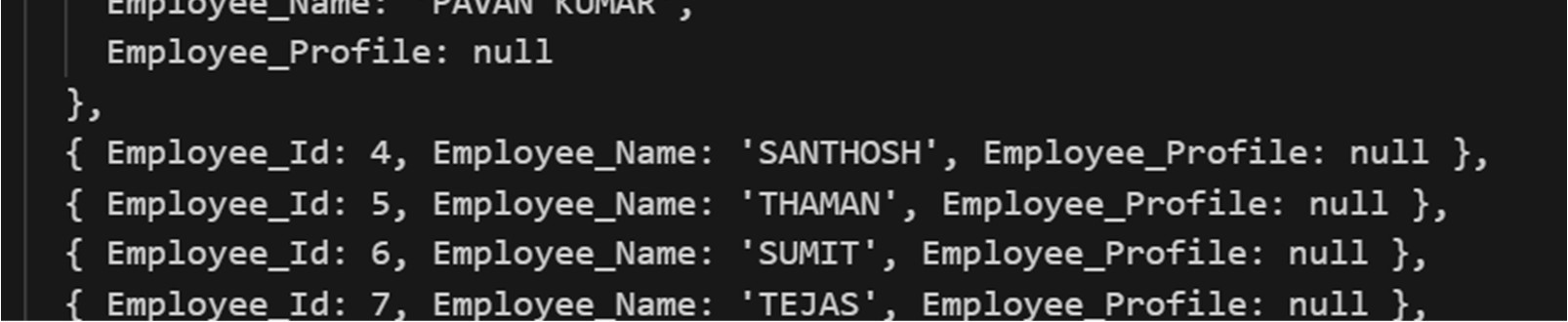
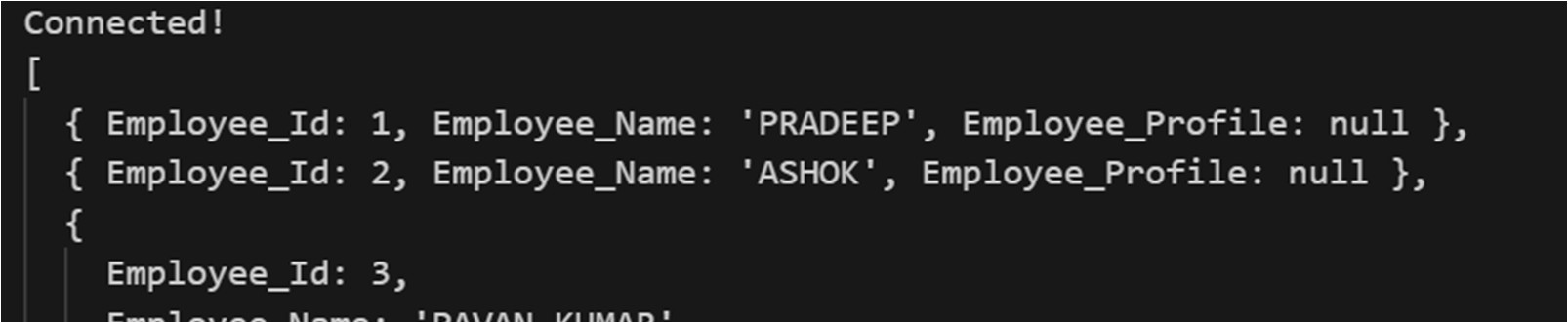
5.



6.



7.



Conclusion: Have successfully learnt and implemented mysql using mysql workbench and nodejs.,