

**Submitted By:**

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**Submitted To:**

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**Introduction:**

In this SQL exercise, we aim to manipulate data from tables named Loan, Account, and Employee\_details. Through SQL queries, we will extract specific information such as the lowest loan amount, highest account balance, average loan amount, and more. Furthermore, we'll engage with the Employee\_details table, tackling tasks like identifying the highest/lowest IDs and salaries, computing averages, and conducting project-related analyses. By completing these exercises, we'll gain proficiency in SQL querying for extracting insights from relational databases, covering tasks like finding extreme values, computing averages, and performing project-specific analyses.

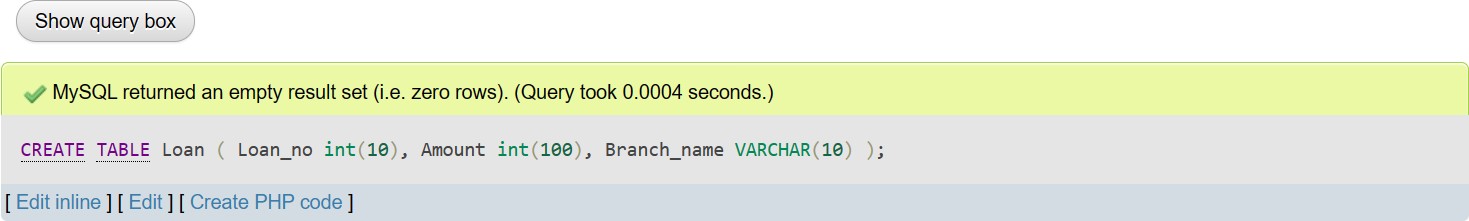
# Task: 1

CREATE TABLE Loan (

Loan\_no int(10), Amount int(100),

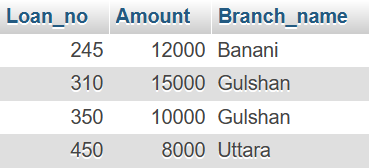
Branch\_name VARCHAR(10)

);



INSERT INTO Loan VALUES (245, 12000 ,'Banani'),(310, 15000, 'Gulshan'),(350, 10000,

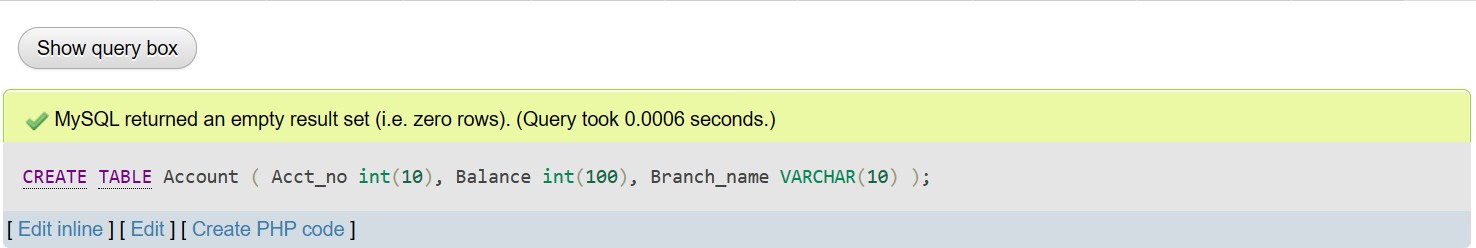
'Gulshan'),(450, 8000, 'Uttara');



CREATE TABLE Account ( Acct\_no int(10), Balance int(100),

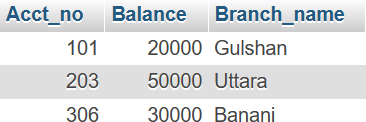
Branch\_name VARCHAR(10)

);



INSERT INTO Account VALUES (101, 20000, 'Gulshan'),(203, 50000, 'Uttara'),(306, 30000,

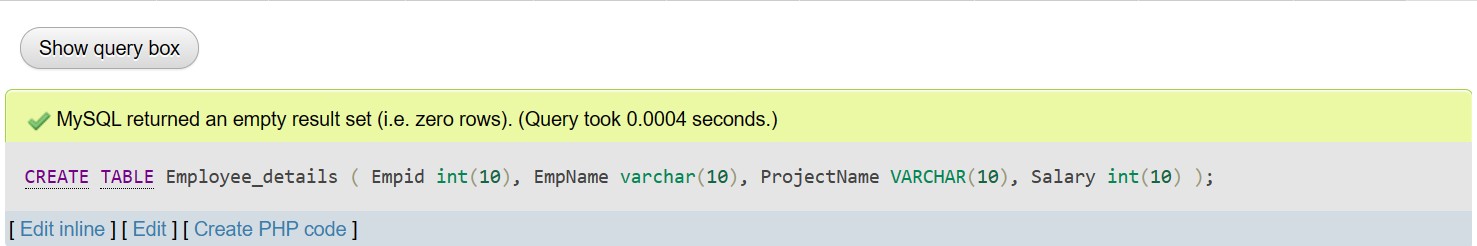
'Banani');



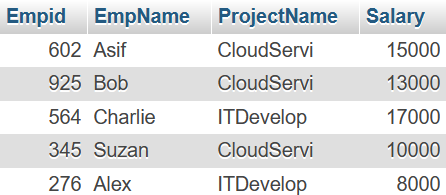
CREATE TABLE Employee\_details ( Empid int(10),

EmpName varchar(10), ProjectName VARCHAR(10), Salary int(10)

);



INSERT INTO employee\_details VALUES (602,'Asif', 'CloudService', 15000),(925,'Bob', 'CloudService', 13000),(564, 'Charlie', 'ITDevelop',17000),(345,'Suzan','CloudService',10000), (276 ,'Alex' ,'ITDevelop',8000);



# Task-2:

select loan\_no from loan where amount=(select MIN(amount) from loan)



# Task-3:

select MAX(balance) as max\_balance from account



# Task-4:

select branch\_name from account where balance=(select MAX(balance) from account)



# Task-5:

select AVG(amount) as avg\_amount from loan



# Task-6:

select COUNT(acct\_no) as No\_of\_acc from account



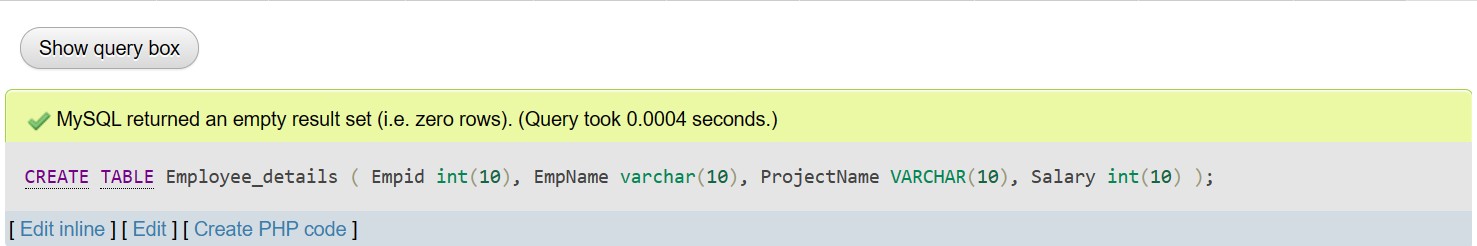
## Exercise:

1. **Create the following Employee table and insert the values into it.**

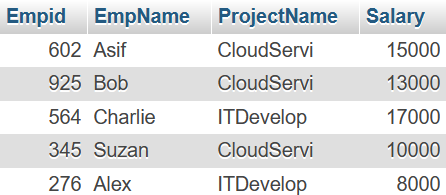
CREATE TABLE Employee\_details ( Empid int(10),

EmpName varchar(10), ProjectName VARCHAR(10), Salary int(10)

);



INSERT INTO employee\_details VALUES

(602,'Asif', 'CloudService', 15000),(925,'Bob', 'CloudService', 13000),(564, 'Charlie', 'ITDevelop',17000),(345,'Suzan','CloudService',10000), (276 ,'Alex' ,'ITDevelop',8000);

## Show the highest ID.

SELECT MAX(Empid) AS Highest\_Empid FROM Employee\_details;



## Show the lowest salary.

SELECT MIN(Salary) AS Lowest\_Salary FROM Employee\_details;



## Show the highest salary.

SELECT MAX(Salary) AS Highest\_Salary FROM Employee\_details;



## Show the average salary.

SELECT AVG(Salary) AS Average\_Salary FROM Employee\_details;



## Show the total number of employees.

SELECT COUNT(\*) AS Total\_Employees FROM Employee\_details;



## Show the highest salary of project CloudService.

SELECT MAX(Salary) AS Highest\_Salary\_CloudService FROM Employee\_details

WHERE ProjectName = 'CloudService';



## Show the lowest salary of project ITDevelop.

SELECT MIN(Salary) AS Lowest\_Salary\_ITDevelop

FROM Employee\_details WHERE ProjectName = 'ITDevelop';



## Show the average salary of project ITDevelop.

SELECT AVG(Salary) AS Average\_Salary\_ITDevelop

FROM Employee\_details WHERE ProjectName = 'ITDevelop';



## Show the name of the employee whose salary is highest.

SELECT EmpName FROM Employee\_details WHERE Salary = (

SELECT MAX(Salary)

FROM Employee\_details

);



## Show the name of the employee whose salary is more than average salary.

SELECT EmpName FROM Employee\_details WHERE Salary > (

SELECT AVG(Salary)

FROM Employee\_details

);



## Show the employee name whose ID is lowest.

SELECT EmpName FROM Employee\_details WHERE Empid = (

SELECT MIN(Empid)

FROM Employee\_details

);



## Find the total salary expense for the ITDevelop project?

SELECT SUM(Salary) AS Total\_Salary\_Expense\_ITDevelop FROM Employee\_details

WHERE ProjectName = 'ITDevelop';



## Calculate the average salary of employees working on the CloudService project.

SELECT AVG(Salary) AS Average\_Salary\_CloudService FROM Employee\_details

WHERE ProjectName = 'CloudService';



## Find the number of employees in the CloudService project.

SELECT COUNT(\*) AS Total\_Employees\_CloudService FROM Employee\_details

WHERE ProjectName = 'CloudService';

