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220370

## Lab Assignment- View and procedures

```
create database EMP;
```

```
USE EMP;
```

```
CREATE TABLE Employee(EmpID INT NOT NULL PRIMARY KEY,
```

```
EmpFirstName VARCHAR(50), EmpLastName VARCHAR(50),
```

```
PhoneNo DOUBLE, EmailID VARCHAR(50), DeptID CHAR(20),
```

```
Jobs VARCHAR(30), JoiningDate DATE);
```

```
INSERT INTO Employee VALUES
```

```
(98,"Paras","Aggarwal",9818792043,"paras.aggarwal@bmu.edu.in","E-101","Management","2007-04-01")
```

```
, (99,"Amrita","Sharma",9818792033,"amrita.sharma@bmu.edu.in","E-101","Management","2008-07-22")
```

```
, (100,"Parths","Aggarwal",9818792883,"parths.aggarwal@bmu.edu.in","E-101","Management","2004-04-02")
```

```
, (101,"Aaryan","Arora",9818792989,"aaryan.ahlawat@gmail.com","E-103","Data-Analyst","2010-04-01")
```

```
, (102,"Unnat","Kalra",9818796789,"unnat.kalra@gmail.com","E-106","Logistics","2013-06-06")
```

```
, (103,"Neha",NULL,9818792043,"neha.null@bmu.edu.in","E-106","Logistics","2023-03-02")
```

```
, (104,"Aryyan","Ahlawat",8588933318,"aryyan.ahlawat.22cse@bmu.edu.in","E-103","Data-Analyst","2011-04-01");
```

```
CREATE TABLE EmpDepartment(DeptID CHAR(20) NOT NULL PRIMARY KEY, DeptName VARCHAR(30));
```

```
CREATE TABLE EmpSalary(EmpID INT NOT NULL PRIMARY KEY, SALARY DOUBLE, IsPermanent CHAR(10));
```

```
INSERT INTO EmpDepartment VALUES ("E-101","Management")
```

```
, ("E-103","Data-Analyst")
```

```
, ("E-106","Logistics");
```

```
INSERT INTO EmpSalary VALUES (98,4000,"Yes")
```

```
,(99,54000,"Yes")
,(100,3400,"No")
,(101,2200,"Yes")
,(102,55000,"Yes")
,(103,60000,"No")
,(104,100000,"Yes");
```

Question 1. Create a View that shows the total salary expense for each department

```
CREATE VIEW DepartmentSalaryExpense AS
SELECT ed.DeptName, SUM(es.SALARY) AS TotalSalaryExpense
FROM Employee e
JOIN EmpSalary es ON e.EmpID = es.EmpID
JOIN EmpDepartment ed ON e.DeptID = ed.DeptID
GROUP BY ed.DeptName;
```

```
select * from DepartmentSalaryExpense;
```

	DeptName	TotalSalaryExpense
▶	Management	61400
	Data-Analyst	102200
	Logistics	115000

Create a Procedure to update an employee's salary based on their ID.

```
DELIMITER //
CREATE PROCEDURE UpdateEmployeeSalary(
    IN empID_param INT,
    IN newSalary_param DOUBLE
)
BEGIN
    UPDATE EmpSalary
    SET SALARY = newSalary_param
    WHERE EmpID = empID_param;
END //
DELIMITER ;
```

Procedure to enter new values into emplyee

DELIMITER //

CREATE PROCEDURE InsertEmployee(

IN empID\_param INT,

IN firstName\_param VARCHAR(50),

IN lastName\_param VARCHAR(50),

IN phone\_param DOUBLE,

IN email\_param VARCHAR(50),

IN deptID\_param CHAR(20),

IN job\_param VARCHAR(30),

IN joiningDate\_param DATE

)

BEGIN

INSERT INTO Employee (EmpID, EmpFirstName, EmpLastName, PhoneNo, EmailID, DeptID, Jobs, JoiningDate)

VALUES (empID\_param, firstName\_param, lastName\_param, phone\_param, email\_param, deptID\_param, job\_param, joiningDate\_param);

END //

DELIMITER ;

Display all employee details along with department details using view:

CREATE VIEW EmployeeDepartmentDetails AS

SELECT e.EmpID, e.EmpFirstName, e.EmpLastName, e.PhoneNo, e.EmailID, ed.DeptName, e.Jobs, e.JoiningDate

FROM Employee e

JOIN EmpDepartment ed ON e.DeptID = ed.DeptID;

select \* from EmployeeDepartmentDetails;

Result Grid								
Filter Rows: <input type="text"/> Export:  Wrap Cell Contents:								
	EmpID	EmpFirstName	EmpLastName	PhoneNo	EmailID	DeptName	Jobs	JoiningDate
▶	98	Paras	Aggarwal	9818792043	paras.aggarwal@bmu.edu.in	Management	Management	2007-04-01
	99	Amrita	Sharma	9818792033	amrita.sharma@bmu.edu.in	Management	Management	2008-07-22
	100	Parths	Aggarwal	9818792883	parths.aggarwal@bmu.edu.in	Management	Management	2004-04-02
	101	Aaryan	Arora	9818792989	aaryan.ahlawat@gmail.com	Data-Analyst	Data-Analyst	2010-04-01
	102	Unnat	Kalra	9818796789	unnat.kalra@gmail.com	Logistics	Logistics	2013-06-06
	103	Neha	NULL	9818792043	neha.null@bmu.edu.in	Logistics	Logistics	2023-03-02
	104	Aryyan	Ahlawat	8588933318	aryyan.ahlawat.22cse@bmu.edu.in	Data-Analyst	Data-Analyst	2011-04-01