Connection code:
cd
cd xampp
cd mysql
cd bin
mysql –u root –p –h 127.0.0.1
Stored procedure
1) Create any database
Syntax: create database LAB6;
use LAB6;
Output:

```
MariaDB [(none)]> create database LAB6;
Query OK, 1 row affected (0.006 sec)

MariaDB [(none)]> use LAB6;
Database changed
```

2) Create two tables with following columns where underlined attributes represent primary key
Department(dep_id,dept_name,location,budget)
Employee(emp_id,emp_name,postion,salary,dept_id)
Syntax:
CREATE TABLE Department (dept_id INT PRIMARY KEY, dept_name VARCHAR(50),location VARCHAR(50),budget DECIMAL(12, 2));
Output:

Field	Type	Null	Key	Default	Extra
dept_id	int(11)	NO	PRI	NULL	
dept_name	varchar(50)	YES		NULL	
location	varchar(50)	YES		NULL	
budget	decimal(12,2)	YES		NULL	

Syntax:CREATE TABLE Employee (emp_id INT PRIMARY KEY,emp_name VARCHAR(50),position VARCHAR(50),salary DECIMAL(10, 2),dept_id INT,FOREIGN KEY (dept_id) REFERENCES Department(dept_id));
Output:

Field	Type	Null	Key	Default	Extra
emp_id	int(11)	NO	PRI	NULL	
emp_name	varchar(50)	YES		NULL	
position	varchar(50)	YES		NULL	
salary	decimal(10,2)	YES		NULL	
dept_id	int(11)	YES	MUL	NULL	

3) Insert at least 5 rows in Department tables
Syntax:
INSERT INTO Department (1, 'IT', 'Kathmandu', 50000),(2, 'HR', 'Biratnagar', 30000),(3, 'Marketing', 'Pokhara', 40000),(4, 'Finance', 'Butwal', 35000),(5, 'Operations', 'Dharan', 45000);
Output:

dept_id	dept_name	location	budget
1	IT	Kathmandu	50000.00
2	HR	Biratnagar	30000.00
3	Marketing	Pokhara	40000.00
4	Finance	Butwal	35000.00
5	Operations	Dharan	45000.00

3) Insert at least 5 rows in employee tables
Syntax:
INSERT INTO Employee VALUES (1, 'Pradip Paudel', 'Manager', 5000, 1),(2, 'Roshan Pandey', 'Developer', 3000, 1),(3, 'Samjhana Bhattrai', 'Analyst', 3500, 2),(4, 'Anish Sharma', 'Designer', 2500, 3),(5, 'Aakritee Bagale', 'Tester', 2000, 3);
Output:

emp_id	emp_name	position	salary	dept_id
1	Pradip Paudel	Manager	5000.00	1
2	Roshan Pandey	Developer	3000.00	1
3	Samjhana Bhattrai	Analyst	3500.00	2
4	Anish Sharma	Designer	2500.00	3
5	Aakritee Bagale	Tester	2000.00	3

4)Create stored procedure without using parameters to
i)To Find all the information of employee.
Syntax:
DELIMITER //
CREATE PROCEDURE getallemployee()
BEGIN
SELECT *FROM EMPLOYEE;
END//
Output: CALL getallemployee();

emp_id	emp_name	position	salary	dept_id
1	Pradip Paudel	Manager	5000.00	1
2	Roshan Pandey	Developer	3000.00	1
3	Samjhana Bhattrai	Analyst	3500.00	2
4	Anish Sharma	Designer	2500.00	3
5	Aakritee Bagale	Tester	2000.00	3

ii) To Find emp_name, position, salary, dept_name of employee
Syntax:DELIMITER //
CREATE PROCEDURE getinfoemployee()
BEGIN
SELECT emp_name,position,salary,dept_name from employee e,department d where e.dept_id=d.dept_id;
END //
Output: CALL getinfoemployee();

emp_name	position	salary	dept_name
Pradip Paudel	Manager	5000.00	IT
Roshan Pandey	Developer	3000.00	IT
Samjhana Bhattrai	Analyst	3500.00	HR
Anish Sharma	Designer	2500.00	Marketing
Aakritee Bagale	Tester	2000.00	Marketing

6)Create stored procedure to with using parameters
i) To find the information of employee of specified department
Syntax:DELIMITER //
CREATE PROCEDURE getdepartmentEmployee(dept varchar(30))
BEGIN
SELECT *
FROM employee
WHERE dept_name=dept;
END //
Output: call getdepartmentEmployee('IT');

emp_id	emp_name	position	salary	dept_id	dept_id	dept_name	location	budget
1	Pradip Paudel	Manager	5000.00	1	1	IT	Kathmandu	50000.00
2	Roshan Pandey	Developer	3000.00	1	1	IT	Kathmandu	50000.00

ii) To find the information of employee of specified employee name and department location.
Syntax: DELIMITER //
CREATE PROCEDURE getdepartmentEmployee(dept varchar(30))
BEGIN
SELECT *
FROM employee
e,department d where e.dept_id=d.dept_id and dept_name=dept;
END //
Output:call getinfodepartmentEmploye('IT','pradip paudel');

emp_id	emp_name	position	salary	dept_id	dept_id	dept_name	location	budget
1	Pradip Paudel	Manager	5000.00	1	1	IT	Kathmandu	50000.00

Views

1) Create view for display the emp_id ,emp_name, position of employee

Syntax: CREATE VIEW Employee_View AS
SELECT
emp_id,
emp_name,
position
FROM employee;
end //

Output: SELECT * FROM Employee_View;

emp_id	emp_name	position
1	Pradip Paudel	Manager
2	Roshan Pandey	Developer
3	Samjhana Bhattrai	Analyst
4	Anish Sharma	Designer
5	Aakritee Bagale	Tester

2) Create view for display emp_id, emp_name, position, dept_name, location

Syntax: CREATE VIEW Emp_Dep_View AS
SELECT
e.emp_id,
e.emp_name,
e.position,
d.dept_name,
d.location
FROM employee eJOIN department d ON e.dept_id = d.dept_id;
end //

Output: SELECT * FROM Emp_Dep_View;

emp_id	emp_name	position
1	Pradip Paudel	Manager
2	Roshan Pandey	Developer
3	Samjhana Bhattrai	Analyst
4	Anish Sharma	Designer
5	Aakritee Bagale	Tester

Fetch Data from the View (Different Requirements)

a) Display all employee details

Syntax: SELECT emp_id, emp_name, position
FROM Emp_Dep_View
WHERE dept_name = 'HR';
delimiter //

Output:

emp_id	emp_name	position	dept_name	location
1	Pradip Paudel	Manager	IT	Kathmandu
2	Roshan Pandey	Developer	IT	Kathmandu
3	Samjhana Bhattrai	Analyst	HR	Biratnagar
4	Anish Sharma	Designer	Marketing	Pokhara
5	Aakritee Bagale	Tester	Marketing	Pokhara

b) Display employees working in a specific department

Syntax: SELECT emp_id, emp_name, position
FROM Emp_Dep_View
WHERE dept_name = 'HR';
delimiter //

Output:

emp_id	emp_name	position
3	Samjhana Bhattrai	Analyst

c) Display employees working in a specific location

Syntax: SELECT emp_id, emp_name, dept_name
FROM Emp_Dep_View
WHERE location = 'Kathmandu';
delimiter //
Output:

emp_id	emp_name	dept_name
1	Pradip Paudel	IT
2	Roshan Pandey	IT

Display employees with a specific position

Syntax: SELECT emp_id, emp_name, dept_name, location
FROM Emp_Dep_View
WHERE position = 'Manager';
delimiter //
Output:

emp_id	emp_name	dept_name	location
1	Pradip Paudel	IT	Kathmandu

e) Display employee name and department only

Syntax: SELECT emp_name, dept_name
FROM Emp_Dep_View;
delimiter //
Output:

emp_name	dept_name
Pradip Paudel	IT
Roshan Pandey	IT
Samjhana Bhattrai	HR
Anish Sharma	Marketing
Aakritee Bagale	Marketing