

```
mysql> CREATE TABLE departments (  
->     department_id INT AUTO_INCREMENT PRIMARY KEY,  
->     department_name VARCHAR(50) NOT NULL  
-> );
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> CREATE TABLE employees (  
->     employee_id INT AUTO_INCREMENT PRIMARY KEY,  
->     employee_name VARCHAR(100) NOT NULL,  
->     department_id INT,  
->     salary DECIMAL(10, 2),  
->     FOREIGN KEY (department_id) REFERENCES departments(department_id)  
-> );
```

Query OK, 0 rows affected (0.02 sec)

```
mysql> CREATE PROCEDURE add_department(IN dept_name VARCHAR(50))  
-> BEGIN  
->     INSERT INTO departments (department_name) VALUES (dept_name);  
-> END //
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> CREATE PROCEDURE add_employee(IN emp_name VARCHAR(100), IN dept_id INT, IN emp_salary DECIMAL(10,2))  
-> BEGIN  
->     INSERT INTO employees (employee_name, department_id, salary) VALUES (emp_name, dept_id, emp_salary);  
-> END //
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> CREATE PROCEDURE get_employees_by_department(IN dept_id INT)  
-> BEGIN  
->     SELECT * FROM employees WHERE department_id = dept_id;  
-> END //
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> CREATE TABLE employee_log (  
->     log_id INT AUTO_INCREMENT PRIMARY KEY,  
->     employee_id INT,  
->     action VARCHAR(50),  
->     log_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP  
-> );
```

Query OK, 0 rows affected (0.03 sec)

```
mysql> CREATE TRIGGER after_employee_insert  
-> AFTER INSERT ON employees  
-> FOR EACH ROW  
-> BEGIN  
->     INSERT INTO employee_log (employee_id, action) VALUES (NEW.employee_id, 'Inserted');  
-> END //
```

Query OK, 0 rows affected (0.01 sec)

```
mysql> CALL add_department('Human Resources');
Query OK, 1 row affected (0.01 sec)
```

```
mysql> CALL add_department('Engineering');
Query OK, 1 row affected (0.00 sec)
```

```
mysql>
```

```
mysql> CALL add_employee('Alice', 1, 60000);
Query OK, 1 row affected (0.01 sec)
```

```
mysql> CALL add_employee('Bob', 2, 70000);
Query OK, 1 row affected (0.00 sec)
```

```
mysql> CALL get_employees_by_department(1);
```

employee_id	employee_name	department_id	salary
1	Alice	1	60000.00

1 row in set (0.01 sec)

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> select * from employees;
```

employee_id	employee_name	department_id	salary
1	Alice	1	60000.00
2	Bob	2	70000.00

2 rows in set (0.01 sec)

```
mysql> select * from departments;
```

department_id	department_name
1	Human Resources
2	Engineering

2 rows in set (0.00 sec)

```
mysql> SELECT * FROM employee_log;
```

log_id	employee_id	action	log_time
1	1	Inserted	2024-10-09 20:16:10
2	2	Inserted	2024-10-09 20:16:10

2 rows in set (0.00 sec)

```
mysql> █
```

