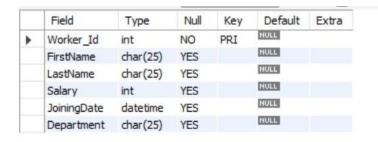
STORED PROCEDURES

--- Consider the Worker table with following fields: Worker_Id INT FirstName CHAR(25), LastName CHAR(25), Salary INT(15), JoiningDate DATETIME, Department CHAR(25))

-- Create the Worker Table

```
CREATE TABLE Worker (
Worker_Id INT PRIMARY KEY,
FirstName CHAR(25),
LastName CHAR(25),
Salary INT,
JoiningDate DATETIME,
Department CHAR(25)
);
```

DESC Worker;



-- Insert Data into the worker Table

INSERT INTO Worker (Worker_Id, FirstName, LastName, Salary, JoiningDate, Department)

VALUES

```
(1, 'John', 'Doe', 50000, '2022-01-01', 'HR'),
(2, 'Jane', 'Smith', 60000, '2021-07-15', 'Finance'),
(3, 'Alice', 'Johnson', 55000, '2023-03-10', 'IT'),
```

```
(4, 'Bob', 'Brown', 70000, '2020-11-20', 'HR'),
(5, 'Eve', 'Davis', 65000, '2019-06-30', 'Finance');
```

SELECT * FROM Worker;

	Worker_Id	FirstName	LastName	Salary	JoiningDate	Department
•	1	John	Doe	50000	2022-01-01 00:00:00	HR
	2	Jane	Smith	60000	2021-07-15 00:00:00	Finance
	3	Alice	Johnson	55000	2023-03-10 00:00:00	IT
	4	Bob	Brown	70000	2020-11-20 00:00:00	HR
	5	Eve	Davis	65000	2019-06-30 00:00:00	Finance
	NULL	NULL	NULL	NULL	NULL	NULL

-- 1. Create a stored procedure that takes in IN parameters for all the columns in the Worker table and adds a new record to the table and then invokes the procedure call

```
DELIMITER //

CREATE PROCEDURE NewWorker(

IN p_Worker_Id INT,

IN p_FirstName CHAR(25),

IN p_LastName CHAR(25),

IN p_Salary INT,

IN p_JoiningDate DATETIME,

IN p_Department CHAR(25)
)

BEGIN

INSERT INTO Worker (Worker_Id, FirstName, LastName, Salary, JoiningDate, Department)

VALUES (p_Worker_Id, p_FirstName, p_LastName, p_Salary, p_JoiningDate, p_Department);
```

```
END //
DELIMITER;
CALL NewWorker(6, 'David', 'Johny', 45000, '2024-01-15', 'Marketing');
-- 2. Write stored procedure takes in an IN parameter for WORKER_ID and an OUT
parameter for SALARY. It should retrieve the salary of the worker with the given ID and
returns it in the p_salary parameter. Then make the procedure call.
DELIMITER //
CREATE PROCEDURE GetWorkerSalary(IN p_Worker_Id INT,OUT p_Salary INT)
BEGIN
SELECT Salary INTO p_Salary FROM Worker
WHERE Worker Id = p Worker Id;
END //
DELIMITER;
SET @p_Salary = 0;
```

-- 3. Create a stored procedure that takes in IN parameters for WORKER_ID and DEPARTMENT.It should update the department of the worker with the given ID. Then make a procedure call.

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CALL GetWorkerSalary(2, @p_Salary);

SELECT @p_Salary AS WorkerSalary;

WorkerSalary

60000

```
DELIMITER //

CREATE PROCEDURE UpdateWorkerDepartment(

IN p_Worker_Id INT,

IN p_Department CHAR(25)
)

BEGIN

UPDATE Worker SET Department = p_Department WHERE Worker_Id = p_Worker_Id;

END //

DELIMITER;

CALL UpdateWorkerDepartment(3, 'CIVIL');
```

select * from worker;

	Worker_Id	FirstName	LastName	Salary	JoiningDate	Department
•	1	John	Doe	50000	2022-01-01 00:00:00	HR
	2	Jane	Smith	60000	2021-07-15 00:00:00	Finance
	3	Alice	Johnson	55000	2023-03-10 00:00:00	CIVIL
	4	Bob	Brown	70000	2020-11-20 00:00:00	HR
	5	Eve	Davis	65000	2019-06-30 00:00:00	Finance
	6	David	Johny	45000	2024-01-15 00:00:00	Marketing
	NULL	NULL	NULL	HULL	HULL	NULL

-- 4. Write a stored procedure that takes in an IN parameter for DEPARTMENT and an OUT parameter for p_workerCount.It should retrieve the number of workers in the given department and returns it in the p_workerCount parameter. Make procedure call.

```
DELIMITER //
CREATE PROCEDURE GetWorkerCount(
IN p_Department CHAR(25),
```

```
OUT p_WorkerCount INT
)
BEGIN
 SELECT COUNT(*) INTO p_WorkerCount
 FROM Worker
 WHERE Department = p_Department;
END //
DELIMITER;
SET @p_WorkerCount = 0;
CALL GetWorkerCount('HR', @p_WorkerCount);
SELECT @p_WorkerCount AS WorkerCount;
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    WorkerCount
) 2
-- 5. Write a stored procedure that takes in an IN parameter for DEPARTMENT and an
OUT parameter for p_avgSalary. It should retrieve the average salary of all workers in
the given department and returns it in the p_avgSalary parameter and call the
procedure.
DELIMITER //
CREATE PROCEDURE GetAverageSalary(IN p_Department CHAR(25),OUT p_AvgSalary
DECIMAL(15,2))
BEGIN
 SELECT AVG(Salary) INTO p_AvgSalary
```

FROM Worker

WHERE Department = p_Department;

END //

DELIMITER;

SET @p_AvgSalary = 0.00;

CALL GetAverageSalary('HR', @p_AvgSalary);

SELECT @p_AvgSalary AS AverageSalary;

