/\*

Assignment 9

Stored Procedures

\*/

create database storedprocedure;

use storedprocedure;

CREATE TABLE Worker (

Worker\_Id INT PRIMARY KEY,

FirstName CHAR(25),

LastName CHAR(25),

Salary INT,

JoiningDate DATETIME,

Department CHAR(25)

);

/\* Consider the Worker table with following fields:

Worker\_Id INT FirstName CHAR(25), LastName CHAR(25), Salary INT(15), JoiningDate DATETIME, Department CHAR(25)) \*/

/\* 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 AddWorker(

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 AddWorker(1, 'John', 'Doe', 5000, '2023-01-01', 'HR');

call addworker(2,'Peter','Dirk',10000,'2023-01-02','Software');

call addworker(3, 'Messi', 'Leo', 4000, '2023-02-03','HR');

call addworker(4, 'Ronaldo', 'Cristiano', 6000, '2022-09-06','Sales');

call addworker(5, 'Mesut', 'Ozil', 7000, '2024-09-08','HR');

call addworker(6, 'Neymar','Chicolso',8000, '2024-01-06','Sales');

call addworker(7,'Peter','cruyff',9000,'2022-09-01','Sodtware');

select \* from worker;

/\* 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 ;

-- calling the getworkersalary procedure

call getworkersalary(2,@salary);

select @salary as Salary;

/\* 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. \*/

Delimiter //

create procedure updatedepartment(

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 ;

-- calling the updatedepartment procedure

call updatedepartment(7,'Software');

select \* from worker where worker\_id = 7;

/\* 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 ;

-- calling getworkercount

call getworkercount('HR', @count);

select @count as Count;

/\* 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(10,2)

)

Begin

select avg(salary) into p\_avgsalary

from worker

where department = p\_department;

end //

delimiter ;

-- calling getavgsalary procedure

call getaveragesalary('HR', @average);

select @average as 'Average of Salary';

call getaveragesalary('Software', @average);

select @average as average;

call getaveragesalary('sales', @average);

select @average as average;