Name: Gautam K K

Department: Testing- Impact Trainee

Task: PLSQL

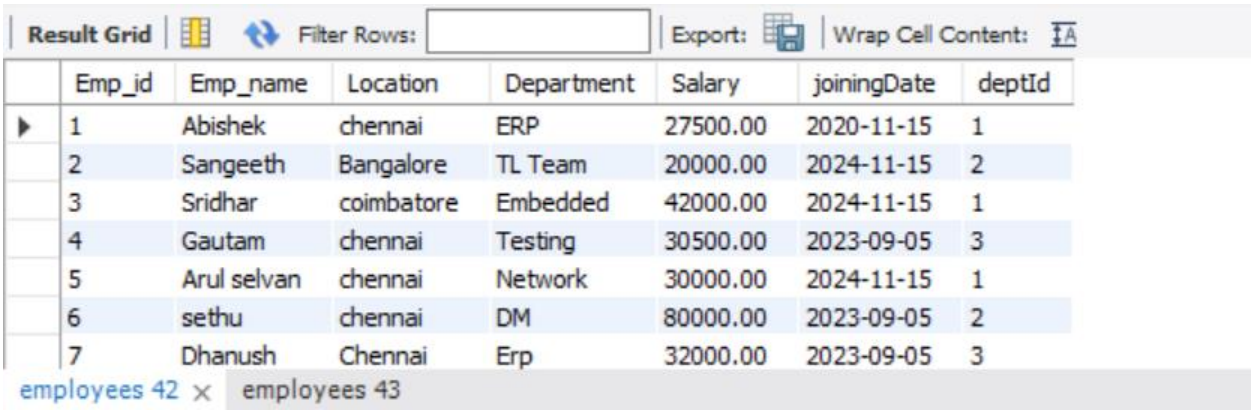
PLSQL

1. **Create a Stored Procedure that takes employee id as IN parameter and updated salary as OUT parameter.Then update the salary of the employee**

```
 create database aspire;
use aspire;


CREATE TABLE Employees(
  Emp_id int ,
  Emp_name varchar (50),
  Location varchar (50),
  Department varchar (50),
  Salary decimal (10 , 2)
  );


  insert into Employees values (1,'Abishek','chennai','ERP',25000.00),
  (2,'Sangeeth','Bangalore','TL Team', 20000.00),
  (3,'Sridhar','coimbatore','Embedded', 35000.00),
  (4,'Gautam','chennai','Testing', 28000.00),
  (5,'Arul selvan','chennai','Network', 30000.00),
  (6,'sethu','chennai','DM',80000.00),
  (7,'Dhanush','Chennai','Erp',32000);


alter table employees add column joiningDate date;
```

```
update employees set joiningDate = '2023-09-05';
update employees set joiningDate = '2024-11-15' where emp_id in (3,5,2);
update employees set joiningDate = '2020-11-15' where emp_id =1;


delimiter ??
create procedure get_UpdatedSalary(in id int, out updatedSalary decimal)
begin
 declare current_salary numeric;
 select salary into current_salary from employees where emp_id = id;
 set updatedSalary = current_salary+2500;
 update employees set salary = updatedsalary where emp_id = id;
 end; ??


call get_UpdatedSalary(3, @emp);
select salary from employees where emp_id = 3;
```

Before procedure execution



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Emp_id	Emp_name	Location	Department	Salary	joiningDate	deptId
1	Abishek	chennai	ERP	27500.00	2020-11-15	1
2	Sangeeth	Bangalore	TL Team	20000.00	2024-11-15	2
3	Sridhar	coimbatore	Embedded	42000.00	2024-11-15	1
4	Gautam	chennai	Testing	30500.00	2023-09-05	3
5	Arul selvan	chennai	Network	30000.00	2024-11-15	1
6	sethu	chennai	DM	80000.00	2023-09-05	2
7	Dhanush	Chennai	Erp	32000.00	2023-09-05	3

employees 42 × employees 43

After

	salary
▶	33000.00

2)Create a function that takes location as an argument and Display the details of all employees in the specified location.

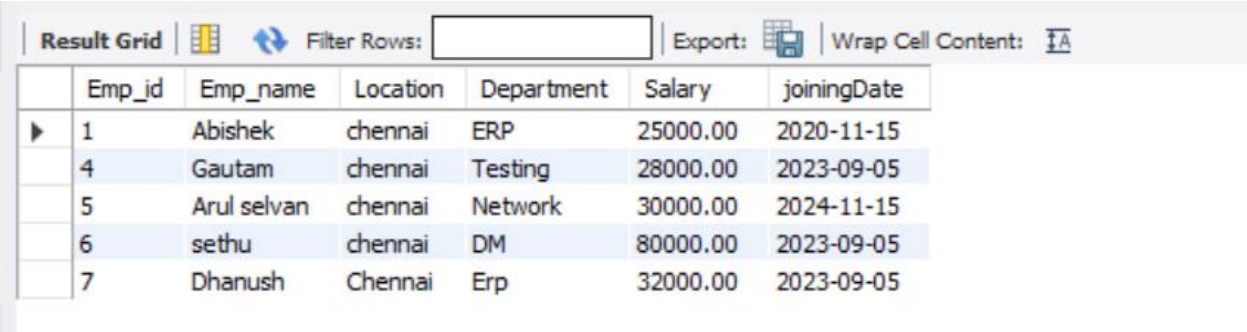
```
delimiter //
create function          get_employeeLocation(locate varchar(50))
returns varchar(50)
deterministic
begin
  declare dataEmp varchar(50);
  select emp_name into dataEmp from employees where location = locate limit 1;
  return (dataEmp);
end; //
select get_employeeLocation('Chennai');


-- another
delimiter **
create function getlocation(loca varchar(50))
returns boolean
deterministic
begin
  create temporary table if not exists temp_table as
  select * from employees where location = loca;
  return true;
```

end; **

select getLocation('Chennai');

select * from temp_table;

Output:



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Emp_id	Emp_name	Location	Department	Salary	joiningDate
1	Abishek	chennai	ERP	25000.00	2020-11-15
4	Gautam	chennai	Testing	28000.00	2023-09-05
5	Arul selvan	chennai	Network	30000.00	2024-11-15
6	sethu	chennai	DM	80000.00	2023-09-05
7	Dhanush	Chennai	Erp	32000.00	2023-09-05

3)Create a view to display the employeeId,departmentname of all employees in "Testing" and "Data analytics" departments who joined in 2022

create table Department(

dept_id int,

dept_name varchar(32)

);

insert into department values (1,'Testing'),(2,'Data Analytics'),(3,'Devops');

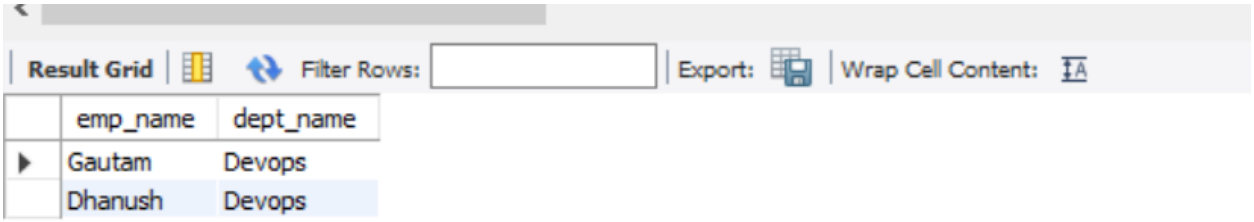
alter table department add primary key(dept_id);

select * from department;

select * from employees;

alter table employees add column deptId int;

```
update employees set deptID =1 where emp_id in (1,3,5);

update employees set deptID =2 where emp_id in (2,6);

update employees set deptID =3 where emp_id in (4,7);


create view fetch_employees as

select employees.emp_name, department.dept_name from employees join department

on employees.deptId = department.dept_id

where department.dept_name in('Testing','Devops') and year(joiningDate) = 2023;

select * from fetch_employees;
```

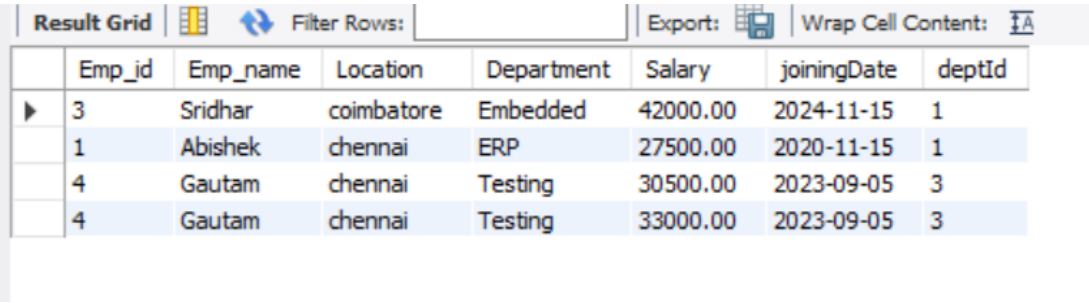


4)Create a trigger that fire after update salary in the employee table.Store the updated employee details in another table

```
delimiter **

create trigger updateSalary

after update on employees

for each row

begin

 if new.salary <> old.salary then

   insert into updatedEmolyee values
(old.emp_id,old.emp_name,old.location,old.department,

   new.salary,old.joiningDate,old.deptId);

 end if;

end **
```

delimiter ;

update employees set salary = 42000 where emp_id = 3;


Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Emp_id	Emp_name	Location	Department	Salary	joiningDate	deptId
3	Sridhar	coimbatore	Embedded	42000.00	2024-11-15	1
1	Abishek	chennai	ERP	27500.00	2020-11-15	1
4	Gautam	chennai	Testing	30500.00	2023-09-05	3
4	Gautam	chennai	Testing	33000.00	2023-09-05	3