**---sql server code challenge**

**--creating employee table**

create table employee(

employeeid int primary key,

name varchar(20),

depmtid int,

salary int,

hiredate date,

foreign key (depmtid) references depmt(depmtid));

**--creating dept table**

create table depmt(

depmtid int primary key,

depmtname varchar(50));

**--creating performance table**

create table performance(

performanceid int primary key,

employeeid int,

reviewdate date,

score int,

foreign key (employeeid) references employee(employeeid));

**--inserting records**

insert into depmt(depmtid,depmtname) values

(1,'it'),

(2,'hr'),

(3,'marketing');

insert into employee (employeeid,name,depmtid,salary,hiredate) values

(101,'risha',1,10000,'2025-01-01'),

(102,'shahin',2,10000,'2020-01-01'),

(103,'afia',1,10000,'2020-01-01'),

(104,'zarin',3,10000,'2024-01-01'),

(105,'raifa',3,10000,'2024-01-01');

insert into performance(performanceid,employeeid,reviewdate,score) values

(11,101,'2025-02-02',95),

(12,102,'2025-02-02',88),

(13,103,'2025-02-02',75),

(14,104,'2025-02-02',90),

(15,105,'2025-02-02',65);

**-- Top 3 Performers**

select top 3 e.name,d.depmtname,p.score,p.reviewdate

from employee e

join depmt d on e.depmtid=d.depmtid

join performance p on e.employeeid=p.employeeid

order by p.score desc;

**--Department wise Average Performance Score**

select avg(p.score) as avgscore,d.depmtname

from employee e

join depmt d on e.depmtid=d.depmtid

join performance p on e.employeeid=p.employeeid

group by d.depmtname;

**--Employees with Salary Above Average and Score > 80**

select e.name, e.salary,p.score

from employee e

join performance p on e.employeeid=p.employeeid

where e.salary>(select avg(salary) from employee)

and p.score>80;

**-- Employees Joined Within the Last 1 Year**

select name , hiredate

from employee

where hiredate>=dateadd(year,-2,getdate());

