

-- 1. creating the database and tables

```
create database company;
use company;
```

```
create table dept (
    deptno int primary key,
    deptname varchar(20),
    location varchar(30)
);
```

```
create table emp (
    eno int primary key,
    ename varchar(50),
    job varchar(20),
    hiredate date,
    salary int,
    commission int,
    deptno int,
    foreign key (deptno) references dept(deptno)
);
```

-- 2. inserting data into tables

```
insert into dept values
(10, 'HR', 'Mumbai'),
(20, 'Finance', 'Pune'),
(30, 'dev', 'Nagpur'),
(40, 'sales', 'Nashik');
```

```
insert into emp values
(1, 'Sachin', 'Manager', '1980-06-15', 5000, 500, 10),
(2, 'Ishwari', 'Analyst', '1981-08-20', 4000, 200, 20),
(3, 'Madhura', 'Salesman', '1982-12-01', 2500, 300, 40),
(4, 'Ashwini', 'Developer', '1980-05-21', 3000, null, 30),
(5, 'Vikas', 'Salesman', '1983-10-12', 2800, 400, 40),
(6, 'Shubhangi', 'Analyst', '1981-09-10', 3500, null, 20),
(7, 'Rohit', 'Clerk', '1982-11-30', 1800, null, 10),
(8, 'Amol', 'Developer', '1980-07-10', 3700, null, 30),
(9, 'Pratik', 'Manager', '1981-02-11', 5200, 600, 10),
(10, 'Rupali', 'Salesman', '1983-05-17', 2900, 250, 40);
```

-- 3. example queries without error logs

```
-- maximum salary for salesman
select max(salary)
from emp
where job = 'Salesman';
```

```
-- employees whose names start with 'I'
select ename
from emp
where ename like 'I%';
```

```
-- employees hired before a specific date
select *
from emp
where hiredate < '1981-09-30';
```

```
-- all employees ordered by salary descending
select *
from emp
order by salary desc;

-- count and average salary in department 20 (finance)
select count(*), avg(salary)
from emp
where deptno = 20;

-- employees hired in department 10 with aggregated salary data
select hiredate, avg(salary) as avgsal, min(salary) as minsal
from emp
where deptno = 10
group by hiredate;

-- employees with department details using join
select e.ename, d.deptname
from emp e
join dept d on e.deptno = d.deptno;

-- employees in department 'dev'
select *
from emp e
join dept d on e.deptno = d.deptno
where d.deptname = 'dev';

-- salary update for employees in department 10 (hr)
update emp
set salary = salary * 1.05
where deptno = 10;
```