

```

-----CAPSTONE PROJECT-----
--created database
create database Employee;
--created tble department
create table Department(Dept_ID int primary key,
Dept_name nvarchar(100) not null,
Contact_no integer unique);
--employee table
create table Employee(Emp_ID int primary key,
Dept_ID int,
Emp_name nvarchar(100),
designation nvarchar(100),
salary money);
--set foreign key
alter table Employee
add constraint Dept_ID_fk foreign key(Dept_ID)
references Department(Dept_ID);
--Add column
alter table Department
add City nvarchar(50);
--changing data type
alter table Employee
alter column salary char(50);
--delete column
alter table Department
drop column city;
--rename column
EXEC sp_rename 'Department.Dept_name', 'Dept_NAME', 'COLUMN';

alter table Department
drop

--DML--
--insert values
alter table Employee
add contact_no int not null,city nvarchar(50);
insert into Employee
values(1,1,'S ahmed','Sales mgr',50000,0100,'New Delhi'),
(2,2,'Anand','Senior mgr',40000,0111,'New Delhi'),
(3,3,'Aruna','Accounts mgr',45000,0112,'New Delhi'),
(4,3,'Alpesh','Accountant',35000,0113,'Bangalore'),
(5,1,'Monica','Incharge',25000,0114,'Noida'),
(6,1,'Harish','Sales man',15000,0115,'Bangalore');

--update contact_no
update Employee
set contact_no = 9999
where city = 'Bangalore' and Emp_ID = 6;

--select
select Emp_ID , Emp_name, designation from Employee;
select * from Employee where salary>30000;
select * from Employee where salary between 15000 and 30000;
select * from Employee where city = 'Bangalore' or city = 'New Delhi';
select * from Employee where Emp_name like 'A%';
select * from Employee order by salary desc;
--group by
alter table Employee

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alter column salary money;
select Dept_ID,avg(salary) as Average_salary from employee
group by Dept_ID;
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```
select Dept_ID,salary from Employee
group by Dept_ID,salary
having avg(salary)>30000;
```

--joins and views

```
create database Company;
create database Dept;
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```
create table company(Emp_id Integer,
name NVARCHAR(50),
Age Integer,
Address NVARCHAR(50),
Salary Numeric(8, 2),
Join_date Date);
```

```
insert into company
values(1,'paul',32,'california',20000.00,'2001-07-13'),
(3,'allen',23,'norway',20000.00,null),
(4,'david',25,'richmond',65000,'2010-10-25'),
(5,'mark',27,'texas',35000,'2015-11-02'),
(2,'teddy',25,'los vegas',null,'2013-09-01');
```

```
create table dept(Id Integer,Dept NVARCHAR(20),emp_id Integer);
insert into dept
values(1,'IT billing',1),
(2,'Engineering',2),
(3,'Finance',41);
```

```
SELECT C.Emp_id, C.name, D.Dept, D.Id AS Dept_Id, C.Age, C.Salary
FROM Company.dbo.company C
full JOIN Dept.dbo.dept D ON C.Emp_id = D.emp_id
WHERE C.Emp_id = 2;
```

--stored procedure

```
create procedure fetchdetails @Emp_id int
as
select c.Emp_id,c.name,d.Dept,d.id as Dept_id,c.Age,c.Salary from Company.dbo.company c
full join Dept.dbo.dept d on c.Emp_id = d.emp_id
where c.Emp_id = @Emp_id
```

```
exec fetchdetails @Emp_id = 2
```

--view

```
create view fetchdetail
as
select c.Emp_id,c.name,d.Dept,d.id as Dept_id,c.Age,c.Salary from Company.dbo.company c
full join Dept.dbo.dept d on c.Emp_id = d.emp_id;
```

```
SELECT Emp_id, name, Dept, Dept_Id, Age, Salary
FROM fetchdetail;
```