

# SQL PROJECT

```
create database empmanagement;
```

-----DDL and DML

```
create table empdatabase(  
id int primary key,  
name varchar(20),  
dept varchar(20),  
salary int,  
hiredate date  
);
```

```
insert into empdatabase values (1, 'John Doe', 'IT', '50000', '2023-01-01');  
insert into empdatabase values (2, 'Jane Smith', 'HR', '89000', '2023-02-02');  
insert into empdatabase values (3, 'Bob deo', 'Finance', '93000', '2023-03-10');  
insert into empdatabase values (4, 'amanda alison', 'finance', '58000', '2023-08-15');  
insert into empdatabase values (5, 'alice brown', 'marketing', '89000', '2023-04-20');
```

```
select*from empdatabase;
```

-----DQL

```
SELECT * FROM empdatabase WHERE Dept = 'IT';
```

```
SELECT Name, HireDate FROM empdatabase WHERE HireDate >= DATEADD(MONTH, -6, GETDATE());
```

-----TCL

```
UPDATE empdatabase SET dept = 'New Job Title', Salary = Salary + 5000 WHERE ID = 1;
```

```
select*from empdatabase;
```

-----DCL

----- create roles

```
CREATE ROLE Manager;
```

-----grant specific permissions  
to role

```
GRANT UPDATE ON empdatabase TO Manager;
```

```
select*from empdatabase;
```

```
CREATE ROLE Viewer;
```

-----grant specific permissions  
to role

```
GRANT SELECT ON empdatabase TO Viewer;
```

```
select*from empdatabase;
```

-----Joins

```
create table emp_info10(
```

```
empName varchar(20), empID int, empdeptName varchar(20) primary key, emphireDate date,
empsalary bigint , jobtitle varchar(20));
```

```
insert into emp_info10 values ('john',10,'IT','2023-01-01','1000000','data analyst');
insert into emp_info10 values ('sam', 20 , 'sales', '2024-08-08', '1007800', 'data
scientist');
insert into emp_info10 values ('amanda', 30, 'HR', '2028-12-10', '1004700', 'ML engineer');
insert into emp_info10 values ('ceily',40, 'finance', '2023-06-04', '1000980', 'tableau
developer');
insert into emp_info10 values ('deo',50, 'marketing', '2021-01-01', '1000360', 'python
developer');
```

```
select* from emp_info10;
```

```
create table emp_info30(
empName varchar(20), empID int, empdeptName varchar(20) primary key, emphireDate date,
empsalary bigint , jobtitle varchar(20));
```

```
insert into emp_info30 values ('emma',10,'IT','2003-01-01','1008900','jr. analyst');
insert into emp_info30 values ('mila', 20 , 'operations', '2024-08-08', '1007800', 'data
scientist');
insert into emp_info30 values ('amanda', 30, 'HR', '2028-12-10', '1004700', 'ML engineer');
insert into emp_info30 values ('ceily',40, 'finance', '2023-06-04', '1000980', 'tableau
developer');
insert into emp_info30 values ('deo',50, 'marketing', '2021-01-01', '1000360', 'python
developer');
```

```
select*from emp_info30;
```

```
select*from emp_info10 inner join emp_info30 on emp_info10.empID = emp_info30.empID;
```

## -----Case Study Integration

```
create table emp_info100 (emp_Name varchar(22), emp_ID int, emp_deptName varchar(22)
primary key, emp_hireDate date, emp_salary bigint , job_title varchar(22));
insert into emp_info100 select * from emp_info100 where emp_Name in (select emp_Name from
emp_info100) ;
```

```
select* from emp_info100;
```

```
create table emp_department1000 (dept_Id int, emp_deptName varchar(22) , foreign
key(emp_deptName) references emp_info100 (emp_deptName));
insert into emp_department1000 select * from emp_department1000 where emp_deptName in
(select emp_deptName from emp_department1000);
```

```
select* from emp_department1000;
```

```
insert into emp_info100 values ('ankit',7,'operation','2017-08-20',180060,'analyst'),
('vaishnavi',8,'sales','2016-01-12',1405800,'accountant'), ('vanes',9,'support','2021-10-
05',19508,'consultant');
```

```
select emp_info100.emp_deptName , emp_info100.emp_Name , emp_department1000.dept_Id from
emp_info100 inner join emp_department1000 on emp_info100.emp_deptName =
emp_department1000.emp_deptName;
```

```
create table employees (
emp_Id int primary key , emp_Name varchar(20) , department varchar(20));
```

```

insert into employees
values(100,'johnson','IT'),(101,'jenelia','sales'),(102,'boby','accounts');
select * from employees;

select*from employees;

create table emptraining_sessions(
session_Id int primary key , deession_Name varchar(20) , session_date date , trainer_Name
varchar(20));

insert into emptraining_sessions values(1007, 'SQL basics', '2023-02-02', 'ankita');
insert into emptraining_sessions values (1008, 'PBS', '2023-10-12', 'sumit');
insert into emptraining_sessions values (1005, 'Data Science', '2023-09-10', 'jaya');

select*from emptraining_sessions;

EXEC sp_rename 'emptraining_sessions.decision_name', 'session_name', 'column';
select*from emptraining_sessions;

```