

Create Table

```
---- create table----  
CREATE TABLE simplicode (  
    id SERIAL PRIMARY KEY,  
    name VARCHAR(50),  
    age INT,  
    city VARCHAR(50),  
    salary NUMERIC(10,2)  
);
```

Insert Values

```
---insert values---  
  
INSERT INTO simplicode (name, age, city, salary)  
VALUES  
( 'Amit Kumar', 28, 'Delhi', 45000),  
( 'Priya Sharma', 32, 'Mumbai', 52000),  
( 'Ravi Verma', 25, 'Bangalore', 38000),  
( 'Sneha Patel', 29, 'Pune', 60000),  
( 'Rahul Mehta', 35, 'Chennai', 75000),  
( 'Amit Kumar', 28, 'Delhi', 45000),  
( 'Priya Sharma', 32, 'Mumbai', 52000),  
( 'Ravi Verma', 25, 'Bangalore', 38000),  
( 'Sneha Patel', 29, 'Pune', 60000),  
( 'Rahul Mehta', 35, 'Chennai', 75000),  
( 'Anjali Singh', 27, 'Kolkata', 42000),  
( 'Vikram Rao', 40, 'Hyderabad', 88000),  
( 'Neha Joshi', 30, 'Jaipur', 54000),  
( 'Karan Gupta', 26, 'Delhi', 39000),  
( 'Meena Iyer', 33, 'Chennai', 61000),  
( 'Arjun Kapoor', 31, 'Bangalore', 70000),  
( 'Pooja Desai', 24, 'Ahmedabad', 36000),  
( 'Manish Tiwari', 38, 'Lucknow', 82000),  
( 'Ritika Jain', 29, 'Pune', 58000),  
( 'Sanjay Reddy', 45, 'Hyderabad', 95000),  
( 'Komal Bhatia', 28, 'Mumbai', 47000),  
( 'Rohit Malhotra', 34, 'Delhi', 64000),  
( 'Divya Nair', 26, 'Kochi', 40000),  
( 'Aditya Das', 30, 'Kolkata', 55000),  
( 'Sunita Mishra', 37, 'Varanasi', 73000);
```



Identify Duplicates Values

```
--identify duplicates value----  
  
SELECT name, age, city, salary, COUNT(*)  
FROM simplicode  
GROUP BY name, age, city, salary  
HAVING COUNT(*) > 1;
```

Delete The Duplicates

```
----delete the duplicates values ----  
  
WITH cte AS (  
    SELECT id,  
           ROW_NUMBER() OVER (  
               PARTITION BY name, age, city, salary  
               ORDER BY id  
           ) AS row_num  
    FROM simplicode  
)  
DELETE FROM simplicode  
WHERE id IN (  
    SELECT id FROM cte WHERE row_num > 1  
)
```

SQL Operator

```
----addition----
SELECT id , name, age, city , salary , salary + 10000 AS new_salary FROM simplicode
SELECT * FROM simplicode

--subtraction----
SELECT salary - 10000 AS old_salary FROM simplicode
SELECT * FROM simplicode

--multiplication----
SELECT salary * 20000 as new_salary from simplicode
SELECT * FROM simplicode

---division---
SELECT salary / 2 as division_salary from simplicode
```

Comparision Operator

```
----equal to ----
SELECT * FROM simplicode WHERE salary = 52000

-----not equal to ----
SELECT * FROM simplicode WHERE SALARY != 34000

---greater than -----
SELECT * FROM simplicode WHERE id >25

---lesser than----
SELECT * FROM simplicode WHERE age < 40

--greater than equal to----
SELECT * FROM simplicode WHERE salary >=60000

----lesser than eqaul to ---
SELECT * FROM simplicode WHERE salary <=45000
```



Logical Operator

```
--AND---
SELECT * FROM simplicode where salary > 60000 AND city='Delhi'

---OR-----
SELECT * FROM simplicode WHERE SALARY > 40000 or city ='delhi'

---between---
SELECT * FROM simplicode WHERE salary BETWEEN 56000 and 66000

----not----
SELECT * FROM simplicode WHERE NOT salary=78000
```

SQL Expressions

```
----Boolean-----
SELECT * FROM simplicode where city='Pune'
SELECT * FROM simplicode where age = 25

---numeric expressions---

SELECT * FROM simplicode WHERE age / 2 > 20

SELECT AVG(age) from simplicode
SELECT SUM(age) from simplicode

-----DATE----- (IF GIVEN)
SELECT * FROM simplicode WHERE DOB > '1999-09-12'
SELECT current_timestamp
```



Drop Table

```
-----drop table-----  
DROP table employees
```

Delete Table

```
-----delete table-----  
delete from employees where id='3'
```

Truncate Table

```
-----truncate table-----  
truncate table employees
```

SQL Alter Table

```
---sql alter table---  
ALTER TABLE employees ADD COLUMN department VARCHAR(50)
```

SQL Reaname Table

```
----- sql rename table-----  
alter table employees rename to members  
select * from members
```



Select

```
-----SELECT-----  
SELECT * FROM simplicode WHERE age=33  
SELECT * FROM simplicode WHERE salary >= 60000
```

Distinct

```
-----distinct-----  
SELECT DISTINCT city from simplicode
```

Count

```
-----count-----  
SELECT COUNT(*) FROM simplicode  
SELECT COUNT(*) FROM simplicode WHERE salary >78000  
SELECT COUNT (DISTINCT city) FROM simplicode
```

Limit

```
-----LIMIT-----  
SELECT * FROM simplicode  
limit 5
```

Order By

```
-----order by-----  
SELECT * FROM simplicode order by salary desc  
limit 5
```



Select Random

```
-----select random-----  
SELECT * FROM simplicode ORDER BY random()  
limit 5  
SELECT * FROM simplicode WHERE id IN (1,2,17)
```

Sum

```
-----sum-----  
SELECT sum(age) from simplicode
```

Select Null

```
-----select null-----  
SELECT * FROM simplicode where age is null
```

Where Clause

```
-----where clause-----  
SELECT * FROM simplicode where salary >=70000  
SELECT * FROM simplicode where city='Chennai'  
SELECT * FROM simplicode where salary between 45000 and 50000
```

Update

```
-----update-----  
update simplicode set salary=90000 where id=1  
select * from simplicode  
select * from simplicode order by salary desc
```

And

```
-----and-----  
SELECT * FROM simplicode where salary > 45000 and city='Delhi'
```

Or

```
-----or-----  
SELECT * FROM simplicode where id>5 or salary>89000
```

As

```
-----as-----  
SELECT salary as total_salary from simplicode
```

like

```
-----like-----  
SELECT * FROM simplicode where name LIKE 'M%'
```

Order by asc

```
-----order by asc -----  
SELECT * FROM simplicode WHERE age > 23 order by salary asc
```

Order by desc

```
-----order by desc -----  
SELECT * FROM simplicode WHERE age < 90 order by salary desc
```



Order by/random

```
-----order by/random-----  
SELECT * FROM simplicode order by random() limit 5
```

Order By Multiple

```
-----order by multiple-----  
SELECT id, city, age, name  
FROM simplicode  
ORDER BY city DESC , age DESC, name ASC;
```

Delete

```
-----delete-----  
DELETE FROM simplicode where id=3  
  
SELECT COUNT(*) FROM simplicode  
DELETE FROM simplicode where city='Delhi'  
DELETE FROM simplicode where city='Chennai' and salary >70000  
DELETE FROM simplicode where salary between 60000 and 90000
```

Add Column

```
-----add column-----  
ALTER TABLE simplicode add column stipned varchar(20) not null  
  
ALTER TABLE simplicode  
ADD COLUMN phone_number VARCHAR(20),  
ADD COLUMN is_active BOOLEAN DEFAULT TRUE;
```



Modify

```
-----modify-----  
ALTER TABLE simplicode  
RENAME COLUMN salary TO total_salary;
```

Drop

```
-----drop-----  
alter table simplicode drop column is_active  
alter table simplicode drop column stipned
```

Default

```
-----DEFAULT-----  
ALTER TABLE simplicode ALTER column stipned set default 15000  
SELECT * FROM simplicode
```



SQL JOIN

```
-- Table 1: Employees
```

```
CREATE TABLE Employees (  
    EmpID INT PRIMARY KEY,  
    EmpName VARCHAR(50),  
    DeptID INT  
);
```

```
-- Table 2: Departments
```

```
CREATE TABLE Departments (  
    DeptID INT PRIMARY KEY,  
    DeptName VARCHAR(50)  
);
```

```
-- Insert sample data
```

```
INSERT INTO Employees (EmpID, EmpName, DeptID) VALUES  
(1, 'Alice', 10),  
(2, 'Bob', 20),  
(3, 'Charlie', 30),  
(4, 'David', NULL);
```

```
INSERT INTO Departments (DeptID, DeptName) VALUES  
(10, 'HR'),  
(20, 'Finance'),  
(30, 'IT'),  
(40, 'Marketing');
```

```
SELECT * FROM departments
```

```
SELECT * FROM employees
```

Inner Join

```
-----INNER JOIN-----  
SELECT e.EmpID,e.EmpName,d.DeptName  
FROM Employees e  
INNER JOIN Departments d  
on e.DeptID = d.DeptID;
```

Left Join

```
-----left join-----  
SELECT e.EmpID, e.EmpName, d.DeptName  
FROM Employees e  
LEFT JOIN Departments d  
ON e.DeptID = d.DeptID;
```

Right Join

```
-----right join-----  
SELECT e.EmpID,e.EmpName,d.DeptName  
from Employees e  
right join Departments d  
on e.DeptID=d.DeptID;
```



Full Outer Join

```
-----full outer join-----  
SELECT e.EmpID,e.EmpName,d.DeptName  
from Employees e  
full outer join Departments d  
on e.DeptID=d.DeptID;
```

Cross Join

```
-----CROSS JOIN-----  
SELECT e.EmpName, d.DeptName  
FROM Employees e  
CROSS JOIN Departments d;
```



Create Table

```
-----table create-----  
  
CREATE TABLE employees2 (  
    EmpID VARCHAR(10) PRIMARY KEY,  
    FirstName VARCHAR(50),  
    LastName VARCHAR(50),  
    Department VARCHAR(50),  
    Phone VARCHAR(15),  
    Email VARCHAR(100),  
    Salary INT  
);
```

Insert Values

```
INSERT INTO employees2 (EmpID, FirstName, LastName, Department, Phone, Email, Salary) VALUES  
( 'E001', 'Diya', 'Bose', 'Finance', '+918793896299', 'diya.bose64@company.com', 127018 ),  
( 'E002', 'Ira', 'Singh', 'Sales', '+919383528137', 'ira.singh40@yahoo.com', 136959 ),  
( 'E003', 'Atharv', 'Reddy', 'Finance', '+918245168936', 'atharv.reddy89@company.com', 42087 ),  
( 'E004', 'Aadhya', 'Mehta', 'IT', '+919291314017', 'aadhya.mehta38@outlook.com', 89888 ),  
( 'E005', 'Vivaan', 'Pillai', 'Finance', '+919374424356', 'vivaan.pillai43@yahoo.com', 47201 ),  
( 'E006', 'Myra', 'Patel', 'Marketing', '+919278625729', 'myra.patel14@company.com', 95676 ),  
( 'E007', 'Atharv', 'Gill', 'HR', '+919441228388', 'atharv.gill55@yahoo.com', 43205 ),  
( 'E008', 'Ananya', 'Nair', 'Finance', '+917051325915', 'ananya.nair83@yahoo.com', 115702 ),  
( 'E009', 'Krishna', 'Verma', 'Sales', '+917706534054', 'krishna.verma24@company.com', 45902 ),  
( 'E010', 'Navya', 'Naidu', 'Marketing', '+919707417275', 'navya.naidu47@company.com', 96714 ),  
( 'E011', 'Anika', 'Naidu', 'Finance', '+917708226882', 'anika.naidu45@gmail.com', 129572 ),  
( 'E012', 'Sai', 'Mishra', 'Finance', '+919068882991', 'sai.mishra2@yahoo.com', 138847 ),  
( 'E013', 'Atharv', 'Patel', 'Marketing', '+917713240322', 'atharv.patel37@outlook.com', 80945 ),  
( 'E014', 'Vivaan', 'Pillai', 'Finance', '+917352406879', 'vivaan.pillai18@company.com', 122117 ),  
( 'E015', 'Ananya', 'Yadav', 'Sales', '+917222429155', 'ananya.yadav9@yahoo.com', 131627 ),  
( 'E016', 'Myra', 'Gill', 'Sales', '+919099330050', 'myra.gilli6@outlook.com', 119057 ),  
( 'E017', 'Aditya', 'Naidu', 'Finance', '+919222335099', 'aditya.naidu32@outlook.com', 96167 ),  
( 'E018', 'Atharv', 'Naidu', 'Marketing', '+917933657913', 'atharv.naidu36@yahoo.com', 50976 ),  
( 'E019', 'Arjun', 'Mehta', 'Finance', '+919474214079', 'arjun.mehta46@company.com', 130221 ),  
( 'E020', 'Aarohi', 'Yadav', 'Finance', '+919807294790', 'aarohi.yadav6@company.com', 59108 ),  
( 'E021', 'Sai', 'Tiwari', 'Marketing', '+919361254705', 'sai.tiwari58@outlook.com', 139672 ),  
( 'E037', 'Krishna', 'Rastogi', 'Finance', '+919651509203', 'krishna.rastogi61@company.com', 86972 ),  
( 'E038', 'Ananya', 'Sharma', 'HR', '+917739406915', 'ananya.sharma31@company.com', 116024 ),  
( 'E039', 'Navya', 'Kapoor', 'Finance', '+918207191721', 'navya.kapoor77@company.com', 146202 ),  
( 'E040', 'Aditya', 'Kohli', 'Sales', '+917200108265', 'aditya.kohli53@yahoo.com', 92589 ),  
( 'E041', 'Krishna', 'Bose', 'Sales', '+918201283783', 'krishna.bose33@outlook.com', 44355 ),  
( 'E042', 'Arjun', 'Mehta', 'Finance', '+918280591288', 'arjun.mehta14@company.com', 134059 ),  
( 'E043', 'Vivaan', 'Iyer', 'HR', '+917006597105', 'vivaan.iyer41@outlook.com', 62237 ),  
( 'E044', 'Aadhya', 'Bose', 'Marketing', '+917674277627', 'aadhya.bose95@outlook.com', 101832 ),  
( 'E045', 'Krishna', 'Kohli', 'Finance', '+919892517087', 'krishna.kohli52@yahoo.com', 45549 ),  
( 'E046', 'Sai', 'Nair', 'Finance', '+919446418345', 'sai.nair97@company.com', 139987 ),  
( 'E047', 'Reyansh', 'Kohli', 'Finance', '+919002510105', 'reyansh.kohli26@outlook.com', 125997 ),  
( 'E048', 'Vivaan', 'Bose', 'Finance', '+917802440764', 'vivaan.bose9@company.com', 65516 ),  
( 'E049', 'Aditya', 'Naidu', 'Marketing', '+919395295326', 'aditya.naidu10@outlook.com', 63348 ),  
( 'E050', 'Sai', 'Kohli', 'Finance', '+918891970535', 'sai.kohli52@outlook.com', 90235 );
```

Group By /Order By

```
---GROUP BY-----ORDER BY -----  
SELECT count(empid)as total , firstname  
from employees2  
GROUP by firstname  
order by firstname
```

Between

```
-----BETWEEN-----  
SELECT salary ,empid  
from employees2  
WHERE salary BETWEEN 45000 and 100000  
order by empid
```

Where

```
-----where -----  
select * from employees2  
where salary between 25000 and 100000
```

Having/Group by

```
-----having----- group by-----  
select empid,avg(salary),count(employees2)  
from employees2  
group by empid  
having avg(salary)>25000
```



Delete

```
-----delete-----  
delete from employees2  
where empid='E004'  
select * from employees2
```

Subqueries

Select

```
-----select-----  
SELECT * FROM employees2  
SELECT *FROM employees2  
where salary < (select avg(salary) from employees2)
```

Insert

```
-----insert-----  
CREATE TABLE employees1 (  
    EmpID VARCHAR(10) PRIMARY KEY,  
    FirstName VARCHAR(50),  
    LastName VARCHAR(50),  
    Department VARCHAR(50),  
    Phone VARCHAR(15),  
    Email VARCHAR(100),  
    Salary INT  
);
```



Correct PostgreSQL Example (User-Defined Function)


```
-- Create a sample table for testing
CREATE TABLE employees3 (
    id SERIAL PRIMARY KEY,
    name VARCHAR(50),
    salary NUMERIC
);
```

Insert

```
-- Insert some sample data
INSERT INTO employees3 (name, salary) VALUES
('Aditya', 40000),
('Rohit', 30000),
('Neha', 50000),
('kiran', 20000);
```

Function to check bonus

```
-- Function to check bonus eligibility
CREATE OR REPLACE FUNCTION bonusstatus(salary NUMERIC)
RETURNS VARCHAR AS $$
BEGIN
    IF salary > 35000 THEN
        RETURN 'Eligible for Bonus';
    ELSE
        RETURN 'Not Eligible';
    END IF;
END;
$$ LANGUAGE plpgsql;
```



Function In Query

```
-- Use the function in a query
SELECT name, salary, bonusstatus(salary) AS bonus_status
FROM employees3;

select *from employees1
```

SQL Cast & Convert Function

```
-----sql cast and convert functions-----
SELECT CAST('12,09,2004' as date ) as converted_date ----date---
SELECT CAST('100' AS INTEGER) AS converted_int; ----string to integer-----
SELECT CAST(123 AS VARCHAR) AS converted_text; ----integer to text-----
SELECT CAST(45.67 AS INTEGER) AS converted_int; -----decimal to integer-
```

Autocommit

```
-----autocommit-----
CREATE TABLE test_commit(id INT);
INSERT INTO test_commit VALUES (1);
commit;

select * from test_commit
```



Update

```
-----update-----  
  
update employees2  
set salary =90000  
where empid='E001';  
  
select * from employees2
```

Rollback

```
-----rollback -----  
  
rollback;  
  
delete from employees2 where department='sales';  
rollback;  
select * from employees2
```

SQL LIKE AND WILDCARDS CHARACTERS

Percent

```
----percent  
  
select * from employees2 where firstname LIKE 'A%'  
select * from employees2 where firstname LIKE 'A%v'  
select * from employees2 where firstname LIKE 'K%' and salary between 25000 and 80000
```



Underscore

```
-----underscore-----  
select * from employees2 where firstname LIKE '____'  
select * from employees2 where firstname LIKE 'A_____'
```

how to find the nth highest salary in sql

```
-----how to find the nth highest salary in sql-----  
SELECT max(salary) FROM employees2 where salary <  
(SELECT MAX(salary) from employees2)  
|  
select * from employees2 order by salary desc
```

Dense Rank

```
-----dense rank-----  
SELECT empid,firstname,lastname,department,phone ,salary from  
(SELECT empid,firstname,lastname,department,phone ,salary,dense_rank() over (order by salary desc) as rank_salary from employees2) as E -----main syntax--  
where rank_salary=12
```

View as

```
-----view as-----  
-----ex1  
SELECT * FROM employees3  
  
CREATE VIEW employees3_view as  
SELECT * FROM employees3  
  
SELECT * FROM employees3_view  
  
-----ex2  
SELECT * FROM employees2  
  
CREATE VIEW employees2_view as  
SELECT * FROM employees2  
  
SELECT * FROM employees2_view
```



how to delete duplicates rows in the sql

```
-----how to delete duplicates rows in the sql -----  
SELECT * FROM employees2  
  
SELECT firstname,lastname,count(*) from employees2  
group by firstname,lastname  
having count(*)>1
```

Delete

```
-----delete-----  
  
delete FROM employees2 where empid not in(  
select max(empid) from employees2 group by firstname,lastname);  
  
SELECT * FROM employees2
```

Row Number

```
-----row number-----  
SELECT empid,firstname,lastname,department, row_number()  
over(partition by firstname order by firstname) as row_num  
from employees2;
```

Delete Duplicates

```
-----delete duplicates-----  
  
DELETE FROM employees2  
WHERE empid IN (  
    SELECT empid  
    FROM (  
        SELECT empid,  
                ROW_NUMBER() OVER (PARTITION BY firstname ORDER BY empid) AS row_num  
        FROM employees2  
    ) t  
    WHERE row_num > 1  
);
```

pattern matching in sql-

```
-----like %  
SELECT * from employees2  
where firstname like 'A%'  
order by firstname
```

Like %

Like last%

```
----like last%  
SELECT DISTINCT lastname from employees2 WHERE lastname like 'Ya%'  
SELECT * FROM employees2 where lastname like '%a'  
SELECT DISTINCT firstname from employees2 where firstname like '%i'  
SELECT * from employees2 where firstname like '%vy%'  
SELECT * FROM employees2 where firstname like 'N%a'
```

Underscore

```
-----underscore  
SELECT * FROM employees2 where firstname like 'A____a'  
SELECT * FROM employees2 where firstname like '____i'  
SELECT * FROM employees2 where department not like 'finance'
```

SQL TRIGGERS

Trigger Function

```
-- Trigger function -----before insert -----  
CREATE OR REPLACE FUNCTION check_empid_before_insert()  
RETURNS TRIGGER AS $$  
BEGIN  
    IF NEW.empid < 'E004' THEN  
        NEW.empid := 0;    -- modify value before insert  
    END IF;  
    RETURN NEW;  
END;  
$$ LANGUAGE plpgsql;
```



Trigger

```
-- Trigger
CREATE TRIGGER before_insert_empid
BEFORE INSERT ON employees2
FOR EACH ROW
EXECUTE FUNCTION check_empid_before_insert();
```

After Insert Create log table

```
-- Create log table
CREATE TABLE employees_log (
    log_id SERIAL PRIMARY KEY,
    emp_id VARCHAR(10),
    action VARCHAR(50),
    log_time TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

Trigger Function

```
-- Trigger function
CREATE OR REPLACE FUNCTION log_employee_insert()
RETURNS TRIGGER AS $$
BEGIN
    INSERT INTO employees_log(emp_id, action)
    VALUES (NEW.empid, 'Inserted');
    RETURN NEW;
END;
$$ LANGUAGE plpgsql;
```



Before Update

```
-- Staff table
CREATE TABLE staff_before_update (
  id SERIAL PRIMARY KEY,
  name VARCHAR(50),
  salary NUMERIC(10,2)
);
```

Trigger Function

```
-- Trigger function
CREATE OR REPLACE FUNCTION prevent_salary_decrease()
RETURNS TRIGGER AS $$
BEGIN
  IF NEW.salary < OLD.salary THEN
    RAISE EXCEPTION '✗ Salary cannot be decreased!';
  END IF;
  RETURN NEW;
END;
$$ LANGUAGE plpgsql;
```

```
-- Trigger
CREATE TRIGGER trg_before_update_staff
BEFORE UPDATE ON staff_before_update
FOR EACH ROW
EXECUTE FUNCTION prevent_salary_decrease();

INSERT INTO staff_before_update (name, salary) VALUES ('Aditya', 50000);

UPDATE staff_before_update SET salary = 60000 WHERE name = 'Aditya'; -- ✓ Works
UPDATE staff_before_update SET salary = 40000 WHERE name = 'Aditya'; -- ✗ Error

SELECT * FROM staff_before_update;
SELECT * FROM employees2;
```



Serial

```
+-----SERIAL-----auto_increment (only in mysql not in pgamdin)-----  
  
CREATE TABLE products(  
product_id int primary key,  
custid int not null,  
product_name varchar(20) not null,  
qunatity int,  
price varchar(20)  
);
```

how to create index in sql

----- ♦ 1. Create a Simple Index-----

```
CREATE INDEX idx_employee_name  
ON employees2 (firstname);
```

```
SELECT * FROM employees2 WHERE firstname = 'Aditya';
```

----- ♦ 2. Unique Index

```
CREATE UNIQUE INDEX idx_unique_department  
ON employees2 (department);
```

```
SELECT * FROM employees2 where department='Finance'
```

-----drop-----

```
DROP INDEX idx_employee_name;
```

```
ALTER TABLE employees2 DROP INDEX idx_employee_name;
```






Regex

```
-----regexp-----  
  
* `~` → regex match (case-sensitive)  
* `~*` → regex match (case-insensitive)  
* `!~` → does not match (case-sensitive)  
* `!~*` → does not match (case-insensitive)
```

SQL CTE

```
-----SQL CTE-----  
  
---ex1  
SELECT * FROM employees2  
  
WITH avg_salary_cte AS (  
    SELECT department, AVG(salary) AS avg_sal  
    FROM employees2  
    GROUP BY department  
)  
SELECT *  
FROM avg_salary_cte  
WHERE avg_sal > 50000;  
  
---ex2  
  
-- Suppose we have employees2 table  
-- emp_id, name, department, salary  
  
-- Step 1: Create a CTE to filter by department  
WITH dept_cte AS (  
    SELECT empid, firstname, department, salary  
    FROM employees2  
    WHERE department = 'Finance'  
)  
-- Step 2: Use it in a main query  
SELECT *  
FROM dept_cte  
WHERE salary > 50000;
```






#OPENTOWORK

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