

WINDOW FUNCTIONS

```
SELECT Name, Age, Department, Salary,  
AVG(Salary) OVER( PARTITION BY Department) AS Avg_Salary  
FROM employee
```

Name	Age	Department	Salary	Avg_Salary
Ramesh	20	Finance	50,000	40,000
Suresh	22	Finance	50,000	40,000
Ram	28	Finance	20,000	40,000
Deep	25	Sales	30,000	25,000
Pradeep	22	Sales	20,000	25,000

SUBQUERIES

```
SELECT  p.product_id AS ProductID,  
        p.product_name AS ProductName,  
        o.order_date AS OrderDate  
FROM Products p  
INNER JOIN OrderItems oi ON p.product_id = oi.product_id  
INNER JOIN Orders o ON oi.order_id = o.order_id  
WHERE p.product_price > (  
    SELECT AVG(product_price)  
    FROM Products  
);
```

OUTPUT

ProductID	ProductName	OrderDate
2	Math Problems Flashcards	2022-04-03
4	History Events Flashcards	2022-03-24

CTES (COMMON TABLE EXPRESSIONS)

```
CREATE DATABASE employee_details;
```

```
USE employee_details;
```

```
CREATE TABLE employee
```

```
(
```

```
emp_id INT PRIMARY KEY,
```

```
emp_name `VARCHAR`(20),
```

```
email_id `VARCHAR`(30),
```

```
city `VARCHAR`(25),
```

```
Verification_status `CHAR`(3)
```

```
);
```

```
INSERT INTO employee VALUES (1,'Suhas','deshmukhsuhas4567@gmail.com','Mumbai','Yes');
```

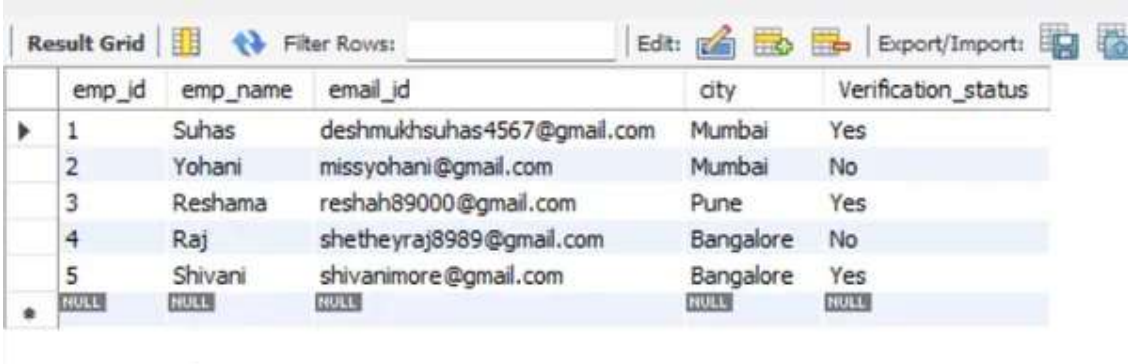
```
INSERT INTO employee VALUES (2,'Yohani','missyohani@gmail.com','Mumbai','No');
```

```
INSERT INTO employee VALUES (3,'Reshama','reshah89000@gmail.com','Pune','Yes');
```

```
INSERT INTO employee VALUES (4,'Raj','shetheyraj8989@gmail.com','Bangalore','No');
```

```
INSERT INTO employee VALUES (5,'Shivani','shivanimore@gmail.com','Bangalore','Yes');
```

```
SELECT * FROM employee;
```



	emp_id	emp_name	email_id	city	Verification_status
▶	1	Suhas	deshmukhsuhas4567@gmail.com	Mumbai	Yes
	2	Yohani	missyohani@gmail.com	Mumbai	No
	3	Reshama	reshah89000@gmail.com	Pune	Yes
	4	Raj	shetheyraj8989@gmail.com	Bangalore	No
	5	Shivani	shivanimore@gmail.com	Bangalore	Yes
✱	NULL	NULL	NULL	NULL	NULL