# **Advanced SQL Queries**

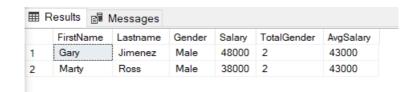
## (1) CTE:

CTE stands for common table expression. A CTE allows you to define a temporary named result set that available temporarily in the execution scope of a statement such as SELECT, INSERT, UPDATE, DELETE, or MERGE.

```
WITH CTE_Employee as

(SELECT FirstName, Lastname, Gender, Salary
, COUNT(gender) OVER (PARTITION BY Gender) as TotalGender
,AVG(Salary) OVER (PARTITION BY Gender) as AvgSalary
FROM [SQL Queries]..EmployeeDemographics dem
JOIN [SQL Queries]..EmployeeSalary sal
ON dem.EmployeeID = sal.EmployeeID
WHERE Salary > '36000'
)
SELECT *
FROM CTE_Employee
```

### Result:



#### (2) STRING Functions:

We will create a new table for this and cover the following functions - TRIM,LTRIM and replace

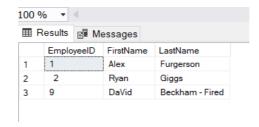
Advanced SQL Queries

1

```
CREATE TABLE EmployeeErrors(
EmployeeID varchar(50)
,FirstName varchar(50)
,LastName varchar(50)
)

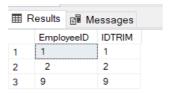
Insert into EmployeeErrors Values
('1', 'Alex', 'Furgerson')
, (' 2', 'Ryan', 'Giggs')
,('9', 'DaVid', 'Beckham - Fired')

Select *
From EmployeeErrors
```



#### TRIM:

```
Select EmployeeID, TRIM(EmployeeID) as IDTRIM
FROM EmployeeErrors
```



#### LRIM:

```
Select EmployeeID, LTRIM(EmployeeID) as IDTRIM
FROM EmployeeErrors
```

Advanced SQL Queries 2



# Replace:

```
Select LastName, REPLACE(LastName, '- Fired','') as LastNameFixed
FROM EmployeeErrors
```

	Results	
	LastName	LastNameFixed
	Furgerson	Furgerson
	Giggs	Giggs
	Beckham - Fired	Beckham
	(3 rows affected)	
	Completion time: 2022-02-15T19:48:23.5148661-05:00	

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