

SQLREAL TIME SCENARIOS

CASE STATEMENT



Q: Write a SQL query to get the Desired output from Input Table.

Input Table: Employee

Empid	Name	Gender	Department
1	Alexa	Female	IT
2	Naman	Male	Finance
3	Rita	Female	Finance
4	Priya	Female	HR
5	Shivangi	Female	HR
6	Rahul	Male	IT
7	Tanya	Female	Finance
8	Arun	Male	HR
9	Lakshya	Male	IT
10	Deepika	Female	HR

Output:

Department	TotalMale	TotalFemale	
Finance	1	2	
HR	1	3	
IT	2	1	

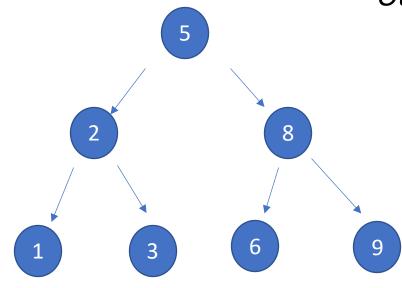
```
SELECT DEPARTMENT, SUM(CASE WHEN GENDER = 'MALE' THEN 1 ELSE 0 END) AS TOTALMALE,
SUM(CASE WHEN GENDER = 'FEMALE' THEN 1 ELSE
0 END) AS TOTALFEMALE
FROM EMPLOYEE
GROUP BY DEPARTMENT
```

Q: Write a SQL query to get the nodes of BINARY tree?

Input Table : Binary

Node	Parent
1	2
3	2
6	8
9	8
2	5
8	5
5	Null





Sele	ct Dis	stir	nct A	۱.nd	ode,					
CASE	WHEN	B . N	lode	is	null	THE	ΞN	'LE	AF'	
WHEN	A.par	rent	is	nu.	11 TH	EN '	' RC	OT'		
ELSE	'INNE	ER'	END	as	node	fro	om	Bin	ary	Α
left	join	Bir	nary	В						
on A	. node=	=B . p	parer	nt						

Node	Туре
1	Leaf
2	Inner
3	Leaf
5	Root
6	Leaf
8	Inner
9	Leaf

Q-Write a SQL query to get desired output.

Input table : Airport Output:-

SOURCE	DESTINATION
DELHI	MUMBAI
MUMBAI	DELHI
DELHI	PATNA
BANGALORE	PUNE
PUNE	BANGALORE
CHANDIGARH	CHENNAI
PUNE	MUMBAI
HYDERABAD	GOA
GOA	HYDERABAD

SOURCE	DESTINATION
DELHI	MUMBAI
DELHI	PATNA
BANGALORE	PUNE
CHANDIGARH	CHENNAI
PUNE	MUMBAI
GOA	HYDERABAD

```
SELECT DISTINCT
CASE WHEN SOURCE < DESTINATION THEN SOURCE ELSE
DESTINATION END AS SOURCE,
CASE WHEN SOURCE > DESTINATION THEN SOURCE ELSE
DESTINATION END AS DESTINATION
FROM AIRPORT
```

Q: Write a SQL query to find the percentage for Male and Female . Print the output to nearest integer.

Input Table: Gender

Output:

Male Male

Male

Male

Male

Male

Male

Male

Male

Male

Male

Male WITH CTE AS (

Select count(Gender) as total, COUNT (CASE WHEN Gender='MALE' THEN 1 ELSE NULL END) AS CNTM,

COUNT (CASE WHEN GENDER='FEMALE'THEN 1 ELSE NULL END) AS CNTF from Gender A)

Select ROUND(CAST (CNTM AS FLOAT)/CAST(TOTAL AS FLOAT),2)*100 as [Male%], ROUND(CAST (CNTF AS FLOAT)/CAST(TOTAL AS FLOAT),2)*100 as [Female%] from CTE

Female

Female

Male

Q: Write the SQL query to get the desired output.

Input Table: Gender Output :

ID	Name	Gender
1	Anita	Male
2	Rakesh	Female
3	Arjun	Female
4	John	Female
5	Deepika	Male
6	Shivani	Male

ID	Name	Gender
1	Anita	Female
2	Rakesh	Male
3	Arjun	Male
4	John	Male
5	Deepika	Female
6	Shivani	Female

```
Select ID, NAME, CASE WHEN GENDER='MALE' THEN 'FEMALE'
WHEN GENDER='Female' THEN 'MALE' END AS GENDER from
#gender - Select records

--Update table
Update #gender
Set Gender = (CASE WHEN GENDER='MALE' THEN 'FEMALE'
WHEN GENDER='Female' THEN 'MALE' END )
```

Q: Write the SQL query to get desired output.

Input Table: Retail Output :

Retailers	Brand
AMAZON	ONEPLUS
WALMART	REALME
SNAPDEAL	CELKON
FLIPKART	MI

Retailers	ONEPLUS	REALME	CELKON	MI
AMAZON	YES	NO	NO	NO
FLIPKART	NO	NO	NO	YES
SNAPDEAL	NO	NO	YES	NO
WALMART	NO	YES	NO	NO

```
SELECT RETAILERS, CASE WHEN ONEPLUS IS NOT NULL THEN 'YES' ELSE 'NO' END AS ONEPLUS,

CASE WHEN REALME IS NOT NULL THEN 'YES' ELSE 'NO' END AS REALME,

CASE WHEN CELKON IS NOT NULL THEN 'YES' ELSE 'NO' END AS CELKON,

CASE WHEN MI IS NOT NULL THEN 'YES' ELSE 'NO' END AS MI FROM (

SELECT RETAILERS, ONEPLUS, REALME, CELKON, MI AS MI FROM

( SELECT RETAILERS, BRAND FROM #RETAIL ) AS ST

PIVOT

(MAX(BRAND) FOR BRAND IN (ONEPLUS, REALME, CELKON, MI)

) AS PT

) T
```

SQL WITH VISHAL KAUSHAL