

DELETE DUPLICATE ROWS

As we know that duplicity in our database tends to be a waste of memory space. It records inaccurate data and is also unable to fetch the correct data from the database.

In this article, we will learn how to delete duplicate rows from a database table. One or more rows that have identical or the same data value are considered to be Duplicate rows.

There are a few steps from which we can create a DETAILS table and check how the deletion of duplicate rows is done.

Step 1: First we have to create a table named "DETAILS".

Query

```
CREATE TABLE DETAILS (  
    SN INT IDENTITY(1,1) PRIMARY KEY,  
    EMPNAME VARCHAR(25) NOT NULL,  
    DEPT VARCHAR(20) NOT NULL,  
    CONTACTNO BIGINT NOT NULL,  
    CITY VARCHAR(15) NOT NULL  
);
```



Step 2: Now, we have to insert values or data in the table.

Query

```
INSERT INTO DETAILS (EMPNAME, DEPT, CONTACTNO, CITY)
VALUES
```

```
('VISHAL', 'SALES', 9193458625, 'GAZIABAD'),
('VIPIN', 'MANAGER', 7352158944, 'BAREILLY'),
('ROHIT', 'IT', 7830246946, 'KANPUR'),
('RAHUL', 'MARKETING', 9635688441, 'MEERUT'),
('SANJAY', 'SALES', 9149335694, 'MORADABAD'),
('VIPIN', 'MANAGER', 7352158944, 'BAREILLY'),
('VISHAL', 'SALES', 9193458625, 'GAZIABAD'),
('AMAN', 'IT', 78359941265, 'RAMPUR');
```

```
INSERT INTO DETAILS
VALUES ('VISHAL', 'SALES', 9193458625, 'GAZIABAD'),
('VIPIN', 'MANAGER', 7352158944, 'BAREILLY'),
('ROHIT', 'IT', 7830246946, 'KANPUR'),
('RAHUL', 'MARKETING', 9635688441, 'MEERUT'),
('SANJAY', 'SALES', 9149335694, 'MORADABAD'),
('VIPIN', 'MANAGER', 7352158944, 'BAREILLY'),
('VISHAL', 'SALES', 9193458625, 'GAZIABAD'),
('AMAN', 'IT', 78359941265, 'RAMPUR');
```

Output: We have a view of the Table after inserting the values:


100 %					
Results		Messages			
	SN	EMPNAME	DEPT	CONTACTNO	CITY
1	1	VISHAL	SALES	9193458625	GAZIABAD
2	2	VIPIN	MANAGER	7352158944	BAREILLY
3	3	ROHIT	IT	7830246946	KANPUR
4	4	RAHUL	MARKETING	9635688441	MEERUT
5	5	SANJAY	SALES	9149335694	MORADABAD
6	6	VIPIN	MANAGER	7352158944	BAREILLY
7	7	VISHAL	SALES	9193458625	GAZIABAD
8	8	AMAN	IT	78359941265	RAMPUR

Step 3: In this step, we have to find how many rows are duplicated.

Query

```
SELECT EMPNAME, DEPT, CONTACTNO, CITY,
COUNT(*) FROM DETAILS
GROUP BY EMPNAME, DEPT, CONTACTNO, CITY
HAVING COUNT(*) > 1
```

Output



	EMPNAME	DEPT	CONTACTNO	CITY	(No column name)
1	VIPIN	MANAGER	7352158944	BARIELLY	2
2	VISHAL	SALES	9193458625	GAZIABAD	2

Step 4: You can also find out the unique row by using this row.

```
SELECT EMPNAME ,DEPT ,CONTACTNO ,CITY ,  
COUNT (*) FROM DETAILS  
GROUP BY EMPNAME ,DEPT ,CONTACTNO ,CITY
```

Output

EMPNAME	DEPT	CONTACTNO	CITY	COUNT(*)
AMAN	IT	78359941265	RAMPUR	1
RAHUL	MARKETING	9635688441	MEERUT	1
ROHIT	IT	7830246946	KANPUR	1
SANJAY	SALES	9149335694	MORADABAD	1
VIPIN	MANAGER	7352158944	BAREILLY	2
VISHAL	SALES	9193458625	GAZIABAD	2

Step 5: Finally we have to delete the duplicate row from the Database.

Query

```
DELETE FROM DETAILS  
WHERE SN NOT IN (  
    SELECT MIN(SN)  
    FROM DETAILS  
    GROUP BY EMPNAME, DEPT, CONTACTNO, CITY  
);  
SELECT * FROM DETAILS;
```

Step 6: After deleting the duplicate row, then we have a view of the table.

Output

EMPNAME	DEPT	CONTACTNO	CITY
AMAN	IT	78359941265	RAMPUR
RAHUL	MARKETING	9635688441	MEERUT
ROHIT	IT	7830246946	KANPUR
SANJAY	SALES	9149335694	MORADABAD