

SQL Query to Get Missing Month Name

Problem: We will solve one SQL Query problem where we will write a SQL query to find missing month using datetime & window function in sql server.

Results Messages			
	SALES_YEAR	SALES_MONTH	SALES_AMOUNT
1	2021	JAN	2000
2	2021	NULL	NULL
3	2021	MAR	3000
4	2021	NULL	NULL
5	2021	MAY	2000
6	2021	NULL	NULL
7	2021	JUL	5000

Desired Output:

Results Messages			
	SALES_YEAR	DATE_MONTH	NEW_SAL
1	2021	January	2000
2	2021	February	1000
3	2021	March	3000
4	2021	April	1000
5	2021	May	2000
6	2021	June	1000
7	2021	July	5000

Solution is given Below:

Script:

```
DROP TABLE IF EXISTS DBO.TBL_SAL;
```

```
GO
```

```
CREATE TABLE DBO.TBL_SAL
```

```
(
```

```
    SALES_YEAR SMALLINT NOT NULL,
```

```
    SALES_MONTH VARCHAR(20) NULL,
```

```
    SALES_AMOUNT INT NULL
```

```
);
```

```
GO
```

```
INSERT INTO DBO.TBL_SAL(SALES_YEAR,SALES_MONTH,SALES_AMOUNT) VALUES
```

```
(2021,'JAN',2000),
```

```
(2021,NULL,NULL),
```

```
(2021,'MAR',3000),
```

```
(2021,NULL,NULL),
```

```
(2021,'MAY',2000),
```

```
(2021,NULL,NULL),
```

```
(2021,'JUL',5000);
```

```
GO
```

```
SELECT * FROM DBO.TBL_SAL;
```

Results Messages			
	SALES_YEAR	SALES_MONTH	SALES_AMOUNT
1	2021	JAN	2000
2	2021	NULL	NULL
3	2021	MAR	3000
4	2021	NULL	NULL
5	2021	MAY	2000
6	2021	NULL	NULL
7	2021	JUL	5000

Solution:

```
SELECT
S.SALES_YEAR,
DATENAME(MONTH,DATEFROMPARTS(S.SALES_YEAR,ROW_NUMBER()OVER(OR
DER BY (SELECT NULL)),1)) AS DATE_MONTH,
IIF(S.SALES_AMOUNT IS NULL,1000,S.SALES_AMOUNT) AS NEW_SAL
FROM DBO.TBL_SAL S;
GO
```

Results		Messages	
	SALES_YEAR	DATE_MONTH	NEW_SAL
1	2021	January	2000
2	2021	February	1000
3	2021	March	3000
4	2021	April	1000
5	2021	May	2000
6	2021	June	1000
7	2021	July	5000