

SQL QUERY TO INSERT MULTIPLE ROWS

Insertion in a table is a DML (Data manipulation language) operation in SQL. When we want to store data we need to insert the data into the database. We use the **INSERT statement** to insert the data into the database.

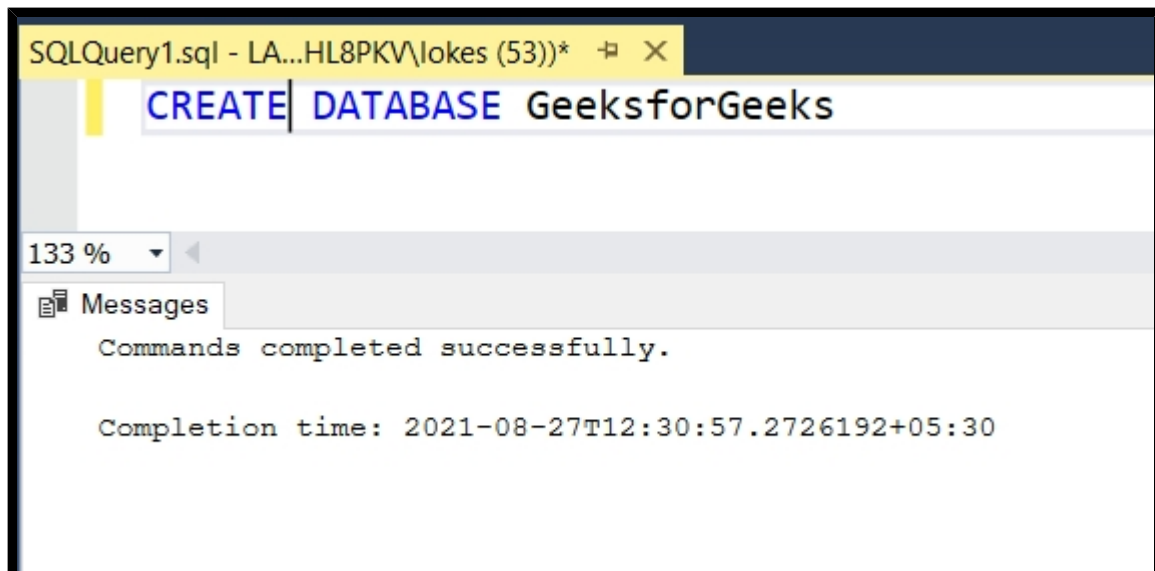
In this article, we see how to insert individual as well as multiple rows in a database using the **INSERT** statement in the MSSQL server.

Creating a Database: Use the below command to create a database named GeeksforGeeks.

Query

```
CREATE DATABASE GeeksforGeeks ;
```

Output

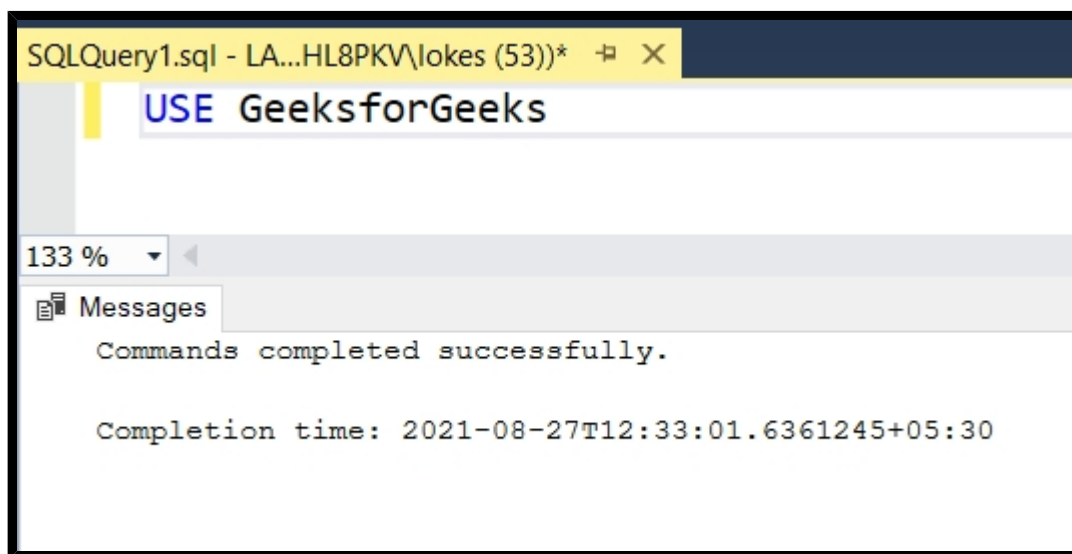


Using the Database: To use the GeeksforGeeks database use the below command.

Query

```
USE GeeksforGeeks ;
```

Output

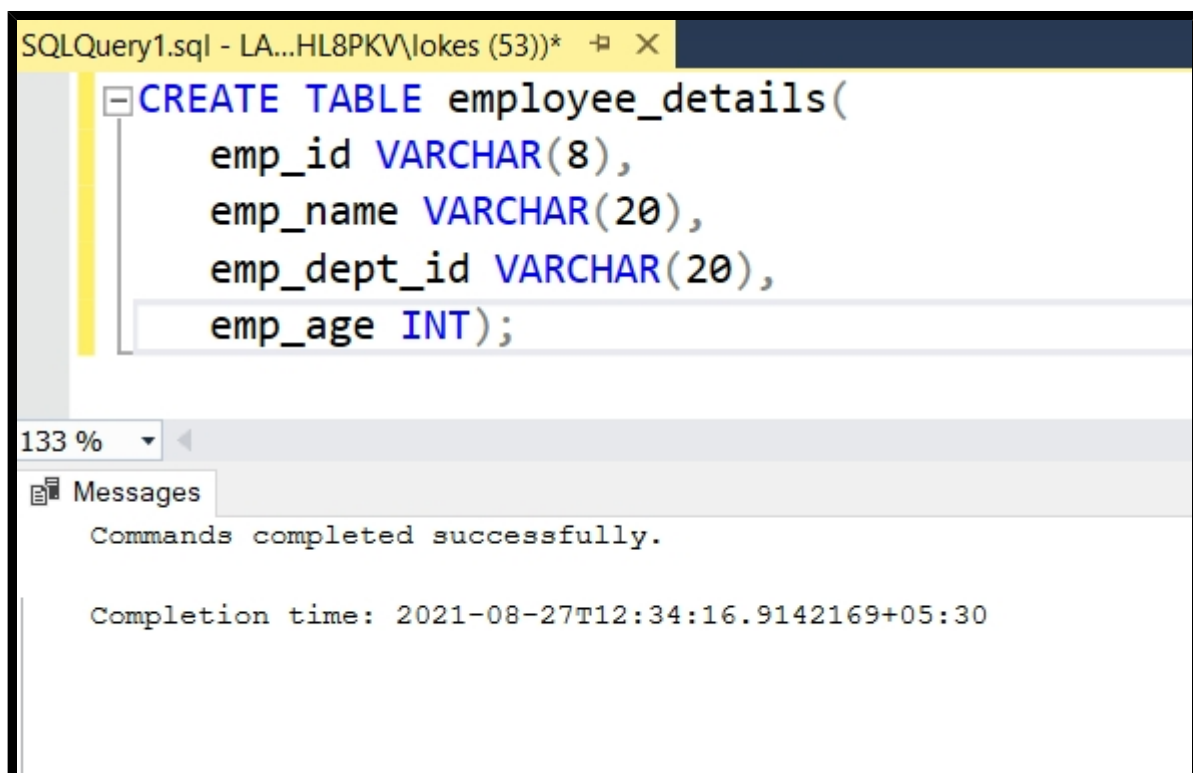


Creating a Table: Create a table employee_details with 4 columns using the following SQL query.

Query

```
CREATE TABLE employee_details(  
    emp_id VARCHAR(8),  
    emp_name VARCHAR(20),  
    emp_dept_id VARCHAR(20),  
    emp_age INT);
```

Output

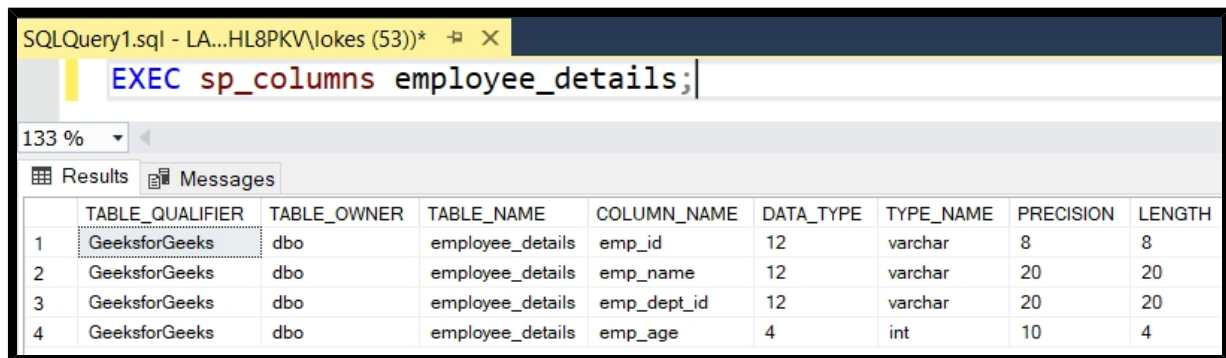


Verifying the table: To view the description of the tables in the database using the following SQL query.

Query

```
EXEC sp_columns employee_details;
```

Output



	TABLE_QUALIFIER	TABLE_OWNER	TABLE_NAME	COLUMN_NAME	DATA_TYPE	TYPE_NAME	PRECISION	LENGTH
1	GeeksforGeeks	dbo	employee_details	emp_id	12	varchar	8	8
2	GeeksforGeeks	dbo	employee_details	emp_name	12	varchar	20	20
3	GeeksforGeeks	dbo	employee_details	emp_dept_id	12	varchar	20	20
4	GeeksforGeeks	dbo	employee_details	emp_age	4	int	10	4

The Query For Inserting Rows Into The Table

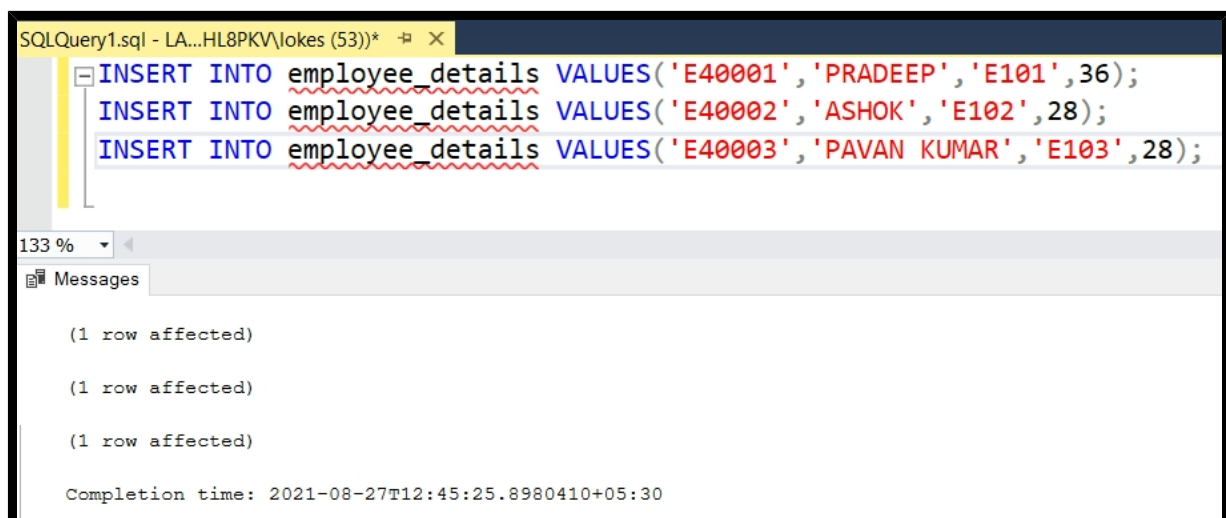
Inserting rows into employee_details table using the following SQL query:

1. Inserting individual rows into the table

Query

```
INSERT INTO employee_details
VALUES ('E40001', 'PRADEEP', 'E101', 36);
INSERT INTO employee_details
VALUES ('E40002', 'ASHOK', 'E102', 28);
INSERT INTO employee_details VALUES ('E40003', 'PAVAN
KUMAR', 'E103', 28);
```

Output



```
INSERT INTO employee_details VALUES('E40001', 'PRADEEP', 'E101', 36);
INSERT INTO employee_details VALUES('E40002', 'ASHOK', 'E102', 28);
INSERT INTO employee_details VALUES('E40003', 'PAVAN KUMAR', 'E103', 28);
```

(1 row affected)

(1 row affected)

(1 row affected)

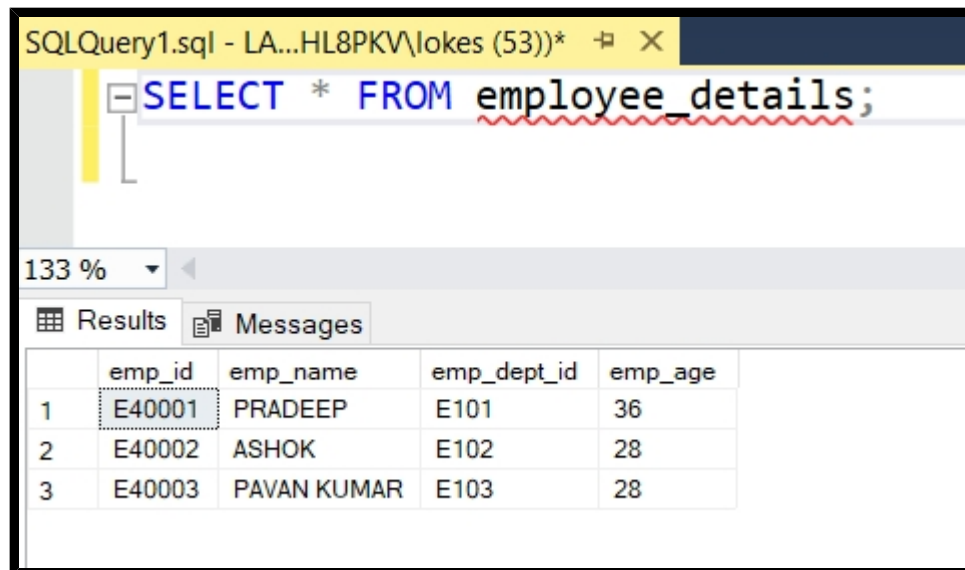
Completion time: 2021-08-27T12:45:25.8980410+05:30

2. Viewing the inserted data

Query

```
SELECT * FROM employee_details;
```

Output



The screenshot shows a SQL Query window titled 'SQLQuery1.sql - LA...HL8PKV\lokes (53))*'. The query entered is `SELECT * FROM employee_details;`. The 'Results' tab is active, displaying a table with 5 columns: emp_id, emp_name, emp_dept_id, emp_age, and an unnamed column. The table contains 3 rows of data.

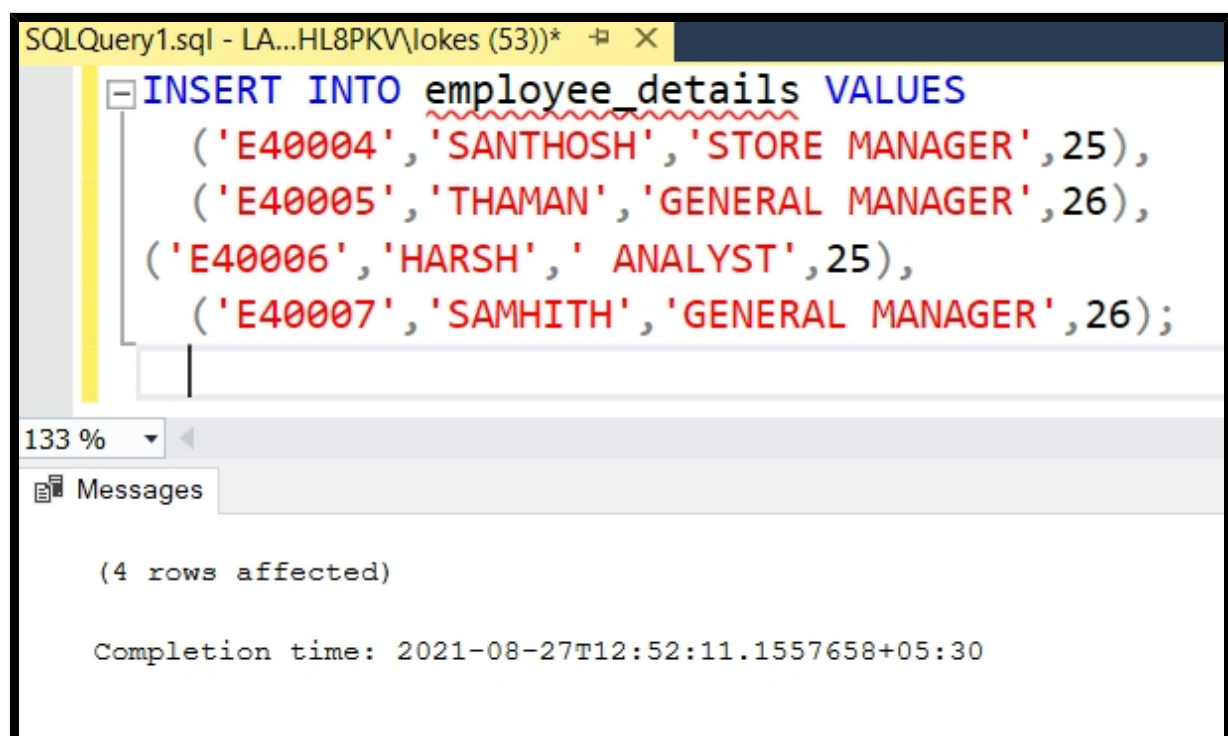
	emp_id	emp_name	emp_dept_id	emp_age	
1	E40001	PRADEEP	E101	36	
2	E40002	ASHOK	E102	28	
3	E40003	PAVAN KUMAR	E103	28	

3. Inserting multiple rows into the table

Query

```
INSERT INTO employee_details
VALUES
    ('E40004', 'SANTHOSH', 'E102', 25),
    ('E40005', 'THAMAN', 'E103', 26),
    ('E40006', 'HARSH', 'E101', 25),
    ('E40007', 'SAMHITH', 'E102', 26);
```

Output



The screenshot shows a SQL Query window titled 'SQLQuery1.sql - LA...HL8PKV\lokes (53))*'. The query entered is `INSERT INTO employee_details VALUES ('E40004', 'SANTHOSH', 'STORE MANAGER', 25), ('E40005', 'THAMAN', 'GENERAL MANAGER', 26), ('E40006', 'HARSH', 'ANALYST', 25), ('E40007', 'SAMHITH', 'GENERAL MANAGER', 26);`. The 'Messages' tab is active, displaying the message '(4 rows affected)' and the completion time '2021-08-27T12:52:11.1557658+05:30'.

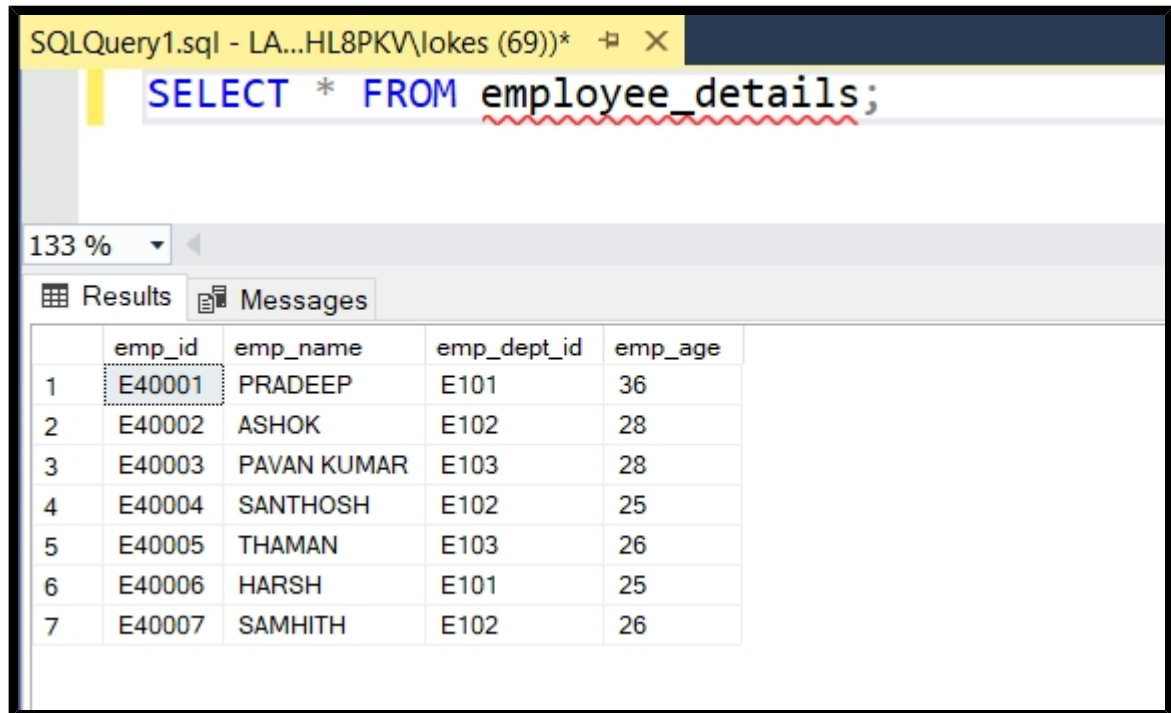
Message
(4 rows affected)
Completion time: 2021-08-27T12:52:11.1557658+05:30

4. Viewing the inserted data now

Query

```
SELECT * FROM employee_details;
```

Output



The screenshot shows a SQL query execution window titled "SQLQuery1.sql - LA...HL8PKV\lokes (69))*". The query entered is "SELECT * FROM employee_details;". Below the query editor, the "Results" tab is active, displaying a table with 7 rows of data. The table has columns: emp_id, emp_name, emp_dept_id, and emp_age. The first row is highlighted with a dashed border.

	emp_id	emp_name	emp_dept_id	emp_age
1	E40001	PRADEEP	E101	36
2	E40002	ASHOK	E102	28
3	E40003	PAVAN KUMAR	E103	28
4	E40004	SANTHOSH	E102	25
5	E40005	THAMAN	E103	26
6	E40006	HARSH	E101	25
7	E40007	SAMHITH	E102	26