

**Setting Up Linked Servers:** First, we configured a linked server in SQL Server to establish a connection with the PostgreSQL database. This setup was done with the necessary permissions to allow indirect access.



SQL SERVER

```
EXEC sp_addlinkedserver
    @server = 'POSTGRESQL_SERVER',
    @srvproduct = 'PostgreSQL',
    @provider = 'MSDASQL',
    @datasrc = 'PostgreSQL_DSN';

EXEC sp_addlinkedsrvlogin
    @rmtsrvname = 'POSTGRESQL_SERVER',
    @useself = 'false',
    @rmtuser = 'postgres_user',
    @rmtpassword = 'postgres_password';
```

**Writing the OpenQuery:** Using OpenQuery, we queried the PostgreSQL database from SQL Server to fetch the necessary sales data.



SQL SERVER

```
-- Query the PostgreSQL database using OpenQuery
```

```
SELECT *  
FROM OPENQUERY(POSTGRES_SERVER,  
    'SELECT sales_id, product_name,  
    sales_amount, sales_date  
FROM postgres_sales_table');
```

**Combining Data:** We then combined the data from SQL Server with the data retrieved from the PostgreSQL database to create a comprehensive sales report.



SQL SERVER

```
SELECT
    s.sales_id,
    s.product_name,
    s.sales_amount,
    p.sales_amount AS postgres_sales_amount,
    p.sales_date
FROM
    sql_server_sales_table s
JOIN
    OPENQUERY(PGSQL_SERVER, 'SELECT
    sales_id, product_name, sales_amount, sales_date
    FROM postgres_sales_table') p
ON
    s.sales_id = p.sales_id;
```