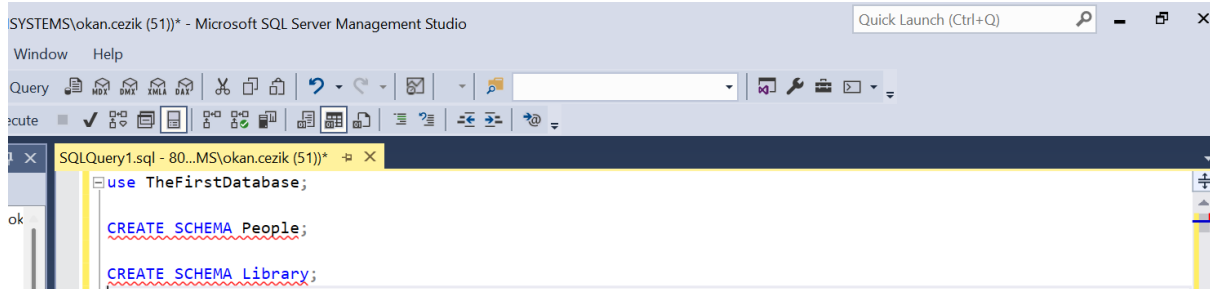


JOIN EXAMPLES

This database consists of two main schemas: People and Library. The schema contains tables for authors, editors, and translators, as well as books in the library, with relationships between them.

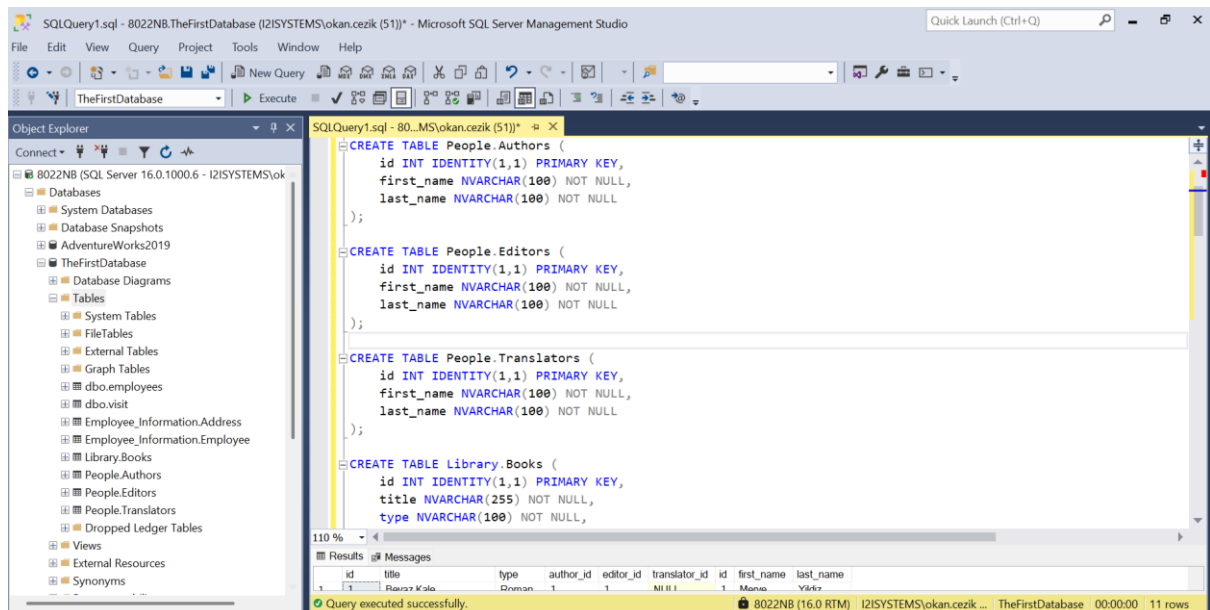
SCHEMA CREATION

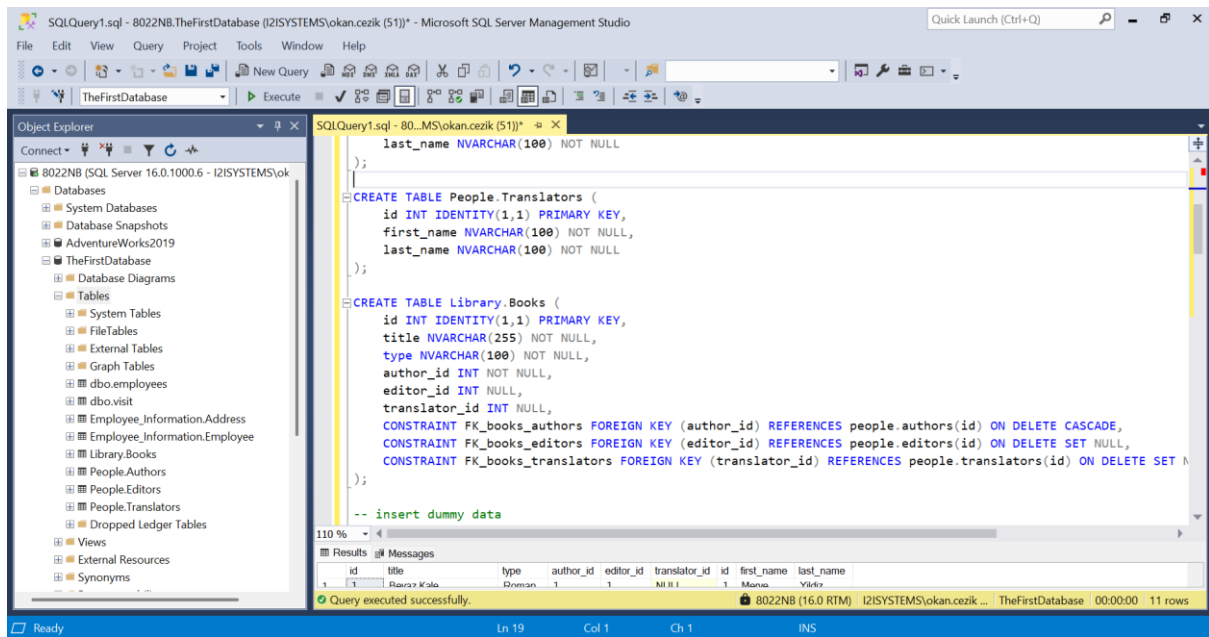


Two schemas are created here:

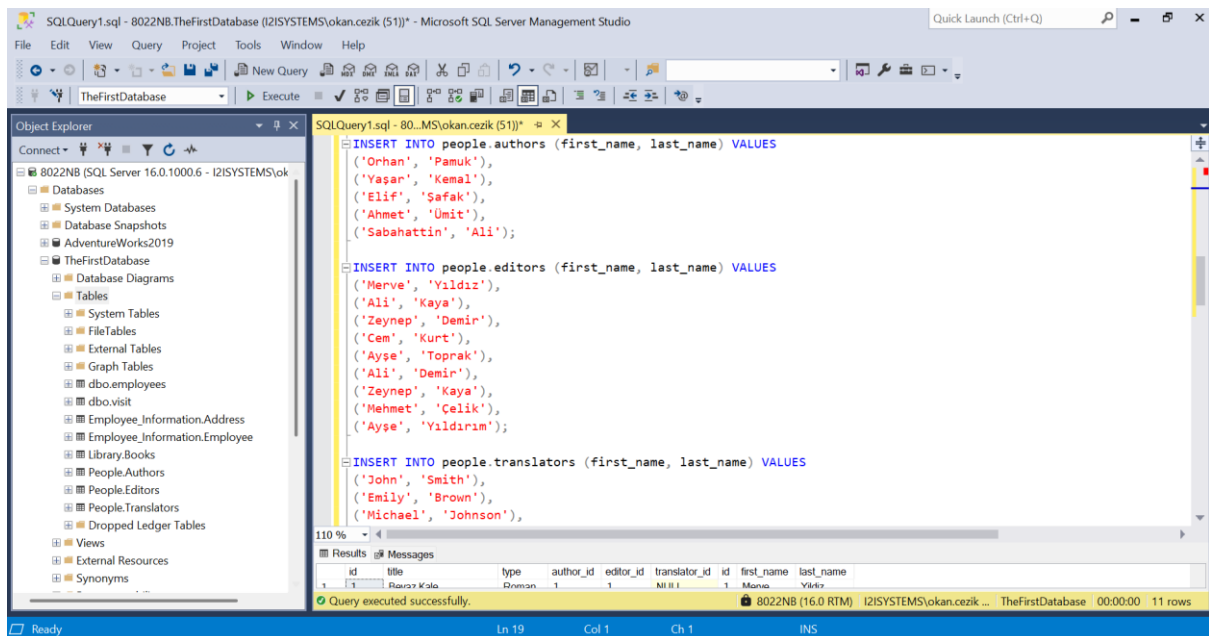
- People: This schema holds the tables related to individuals involved in the publication process, such as authors, editors, and translators.
- Library: This schema contains tables related to the books available in the library.

TABLE CREATION





INSERTING DUMMY DATA



QUERIES EXAMPLES

Q-1) Showing books and their authors

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'TheFirstDatabase'. The main query window contains the following SQL code:

```
-- Example #1: Showing books and their authors
SELECT
    b.title AS Title,
    b.type AS Type,
    a.first_name + ' ' + a.last_name AS Author
FROM
    library.books b inner join people.authors a
    ON b.author_id = a.id
```

The Results pane shows the following data:

	Title	Type	Author
1	Beyaz Kale	Roman	Orhan Pamuk
2	Ince Memed	Roman	Yasar Kemal
3	Ask	Roman	Elif Safak
4	Kayip Tanrilar Ulkesi	Polisiye	Ahmet Umit
5	Kirk Mantolu Madonna	Roman	Sabahattin Ali
6	Kitap4	Roman	Orhan Pamuk
7	Kitap5	Biyografi	Yasar Kemal

The status bar at the bottom indicates the query was executed successfully, returning 7 rows.

Q-2) Showing books and their translators

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'TheFirstDatabase'. The main query window contains the following SQL code:

```
-- Example #2: Showing books and their translators
SELECT
    b.title AS Title,
    b.type AS Type,
    CONCAT(t.first_name, ' ', t.last_name) AS Translator
FROM
    library.books b join people.translators t
    ON b.translator_id = t.id
```

The Results pane shows the following data:

	Title	Type	Translator
1	Ask	Roman	John Smith
2	Kayip Tanrilar Ulkesi	Polisiye	Emily Brown

The status bar at the bottom indicates the query was executed successfully, returning 2 rows.

Q-3) Showing all books alongside their authors and translators, if they exist

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'TheFirstDatabase'. The main query window contains the following SQL code:

```
-- Example #3: Showing all books alongside their authors and translators, if they exist
SELECT
    b.title AS Title,
    b.type AS Type,
    CONCAT(a.first_name, ' ', a.last_name) AS Author,
    t.last_name AS Translator
FROM library_books b inner join people.authors a
    on b.id = a.id
    left outer join people.translators t
    on b.translator_id = t.id
```

The Results pane shows the following data:

	Title	Type	Author	Translator
1	Beyaz Kale	Roman	Orhan Pamuk	NULL
2	Ince Memed	Roman	Yasar Kemal	NULL
3	Ask	Roman	Elif Safak	Smith
4	Kayıp Tarımlar Ülkesi	Polisye	Ahmet Ümit	Brown
5	Kürk Mantolu Madonna	Roman	Sabahattin Ali	NULL

The status bar at the bottom indicates the query was executed successfully, returning 5 rows.

Q-4) Showing all books with their editors, if any

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left displays the database structure for 'TheFirstDatabase'. The main query window contains the following SQL code:

```
-- Example #4: Showing all books with their editors, if any
SELECT
    b.title AS Title,
    b.type AS Type,
    e.last_name AS Editor
FROM library_books b left outer join people.editors e
    on b.editor_id = e.id

-- Example #5: Books and editors with RIGHT JOIN
```

The Results pane shows the following data:

	Title	Type	Editor
1	Beyaz Kale	Roman	Yıldız
2	Ince Memed	Roman	Kaya
3	Ask	Roman	Demir
4	Kayıp Tarımlar Ülkesi	Polisye	Kurt
5	Kürk Mantolu Madonna	Roman	Toprak
6	Kitap4	Roman	Kaya
7	Kitap5	Biyografi	Demir

The status bar at the bottom indicates the query was executed successfully, returning 7 rows.

Q-5) Write a SQL query to list all the books and their associated editors. Ensure that all editors are included in the result, even if they are not assigned to a book

The screenshot shows the Microsoft SQL Server Management Studio interface. The left pane displays the Object Explorer with the database structure of 'TheFirstDatabase'. The central pane shows a SQL query window with the following code:

```

e.last_name AS Editor
FROM library.books b left outer join people.editors e
on b.editor_id = e.id

-- Example #5: Books and editors with RIGHT JOIN

SELECT
FROM library.books b right outer join people.editors e
on b.editor_id = e.id

-- Example #6: Showing all books and all editors

```

The bottom pane shows the 'Results' tab with 11 rows of data. The status bar at the bottom indicates 'Query executed successfully' and '11 rows'.

id	title	type	author_id	editor_id	translator_id	id	first_name	last_name
1	Beyaz Kale	Roman	1	1	NULL	1	Merve	Yıldız
2	İnce Memed	Roman	2	2	NULL	2	Ali	Kaya
3	Kitap4	Roman	1	2	NULL	2	Ali	Kaya
4	Ask	Roman	3	3	1	3	Zeynep	Demir
5	Kitap5	Biyografi	2	3	NULL	3	Zeynep	Demir
6	Kayıp Tanılar Ülkesi	Polsiye	4	4	2	4	Cem	Kurt
7	Kürk Mantolu Madonna	Roman	5	5	NULL	5	Ayşe	Toprak
8	NULL	NULL	NULL	NULL	NULL	6	Ali	Demir
9	NULL	NULL	NULL	NULL	NULL	7	Zeynep	Kaya
10	NULL	NULL	NULL	NULL	NULL	8	Mehmet	Çelik
11	NULL	NULL	NULL	NULL	NULL	9	Ayşe	Yıldırım