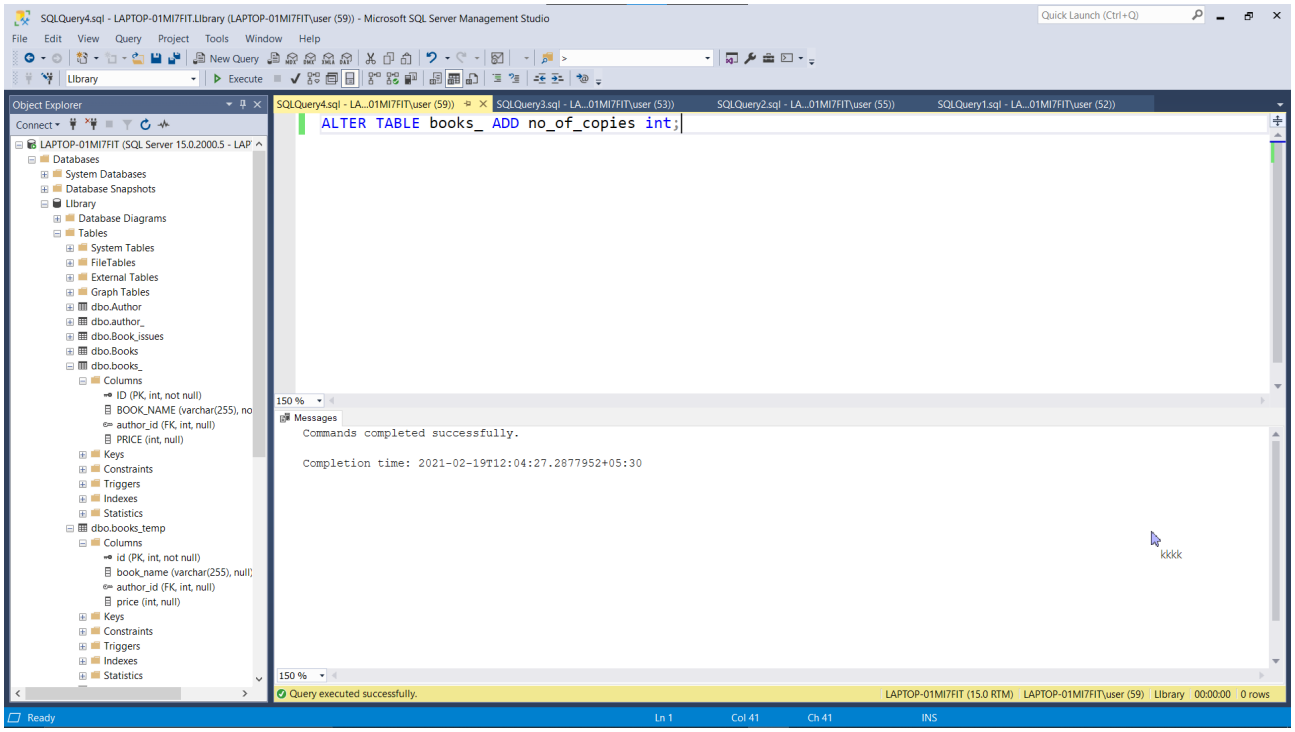
Group - 7

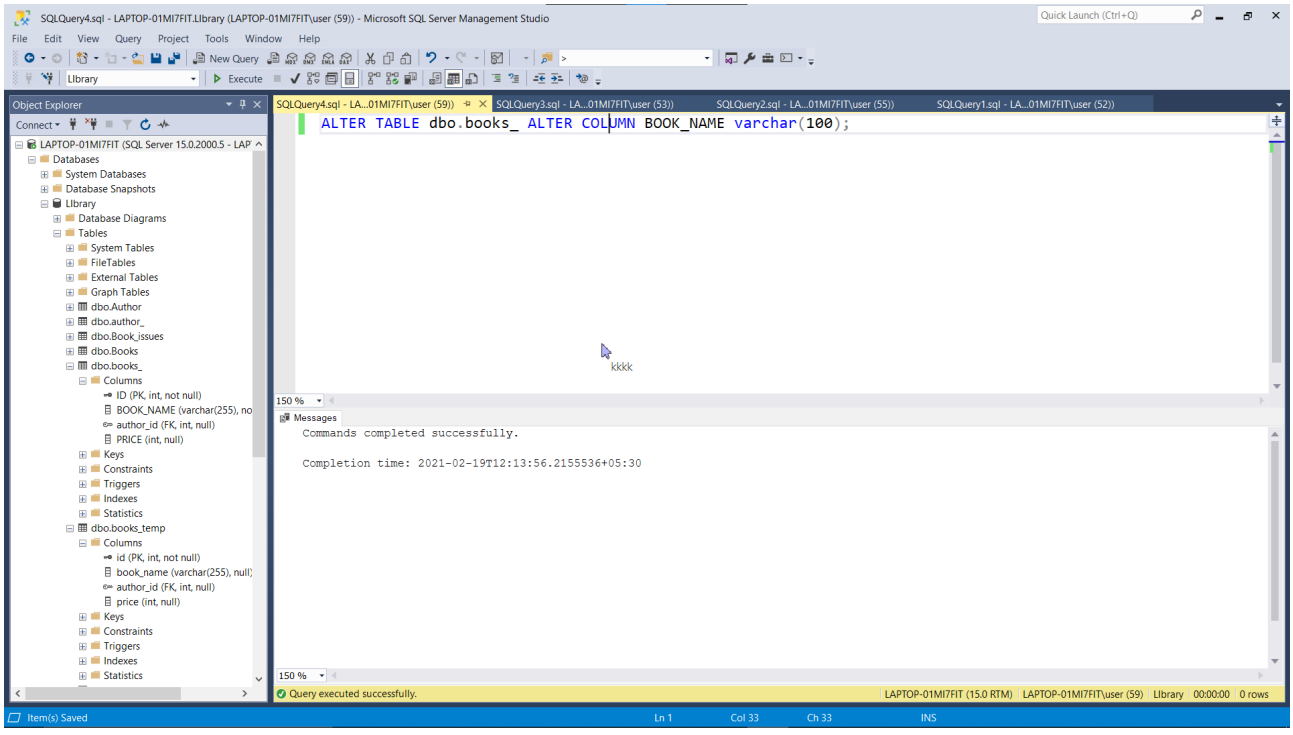
1)Add, Modify and Delete Column using Alter Command

i)ADD
Command ; - ALTER TABLE books_ ADD no.of_copies int;
Output:-



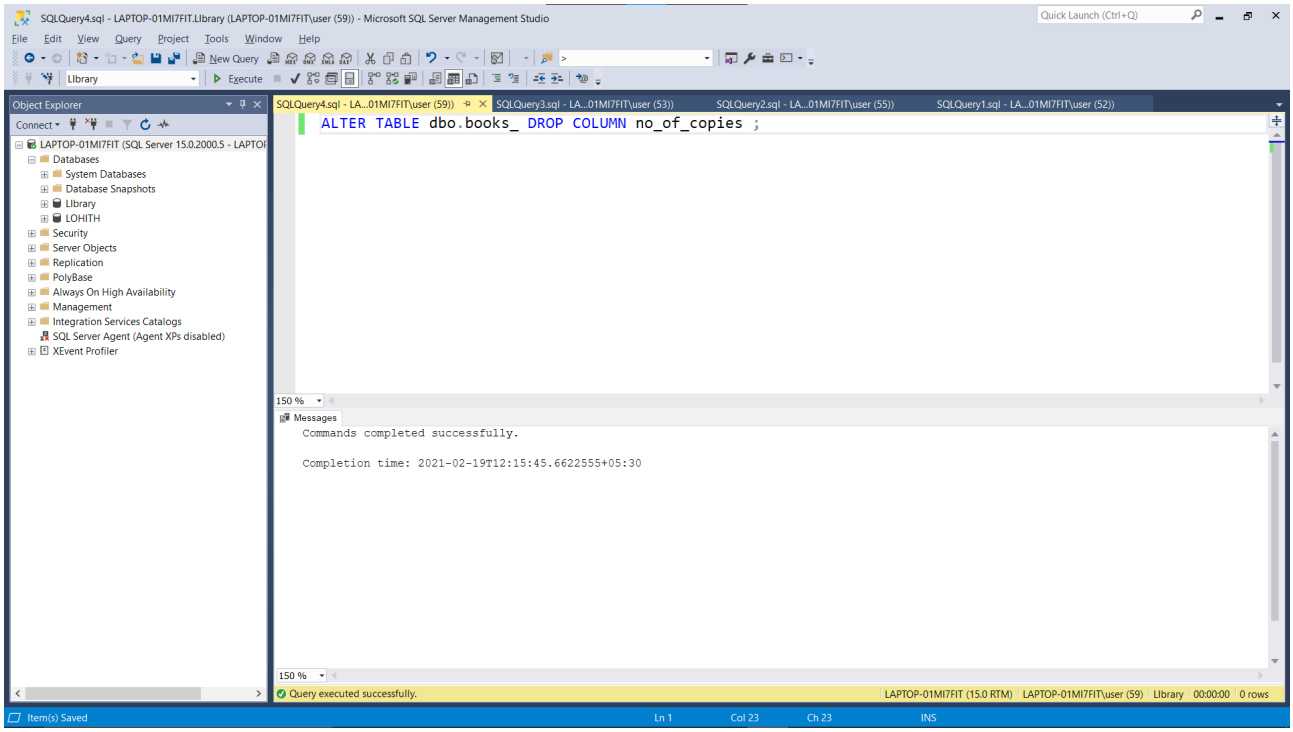
ii)MODIFY

Commmand :- ALTER TABLEdbo.books_ ALTER COLUMN BOOK_NAME varchar(100);
OUTPUT:-



iii) DELETE

COMMAND ;- ALTER TABLE dbo.books DROP COLUMN no_of_copies;



OUTPUT : -

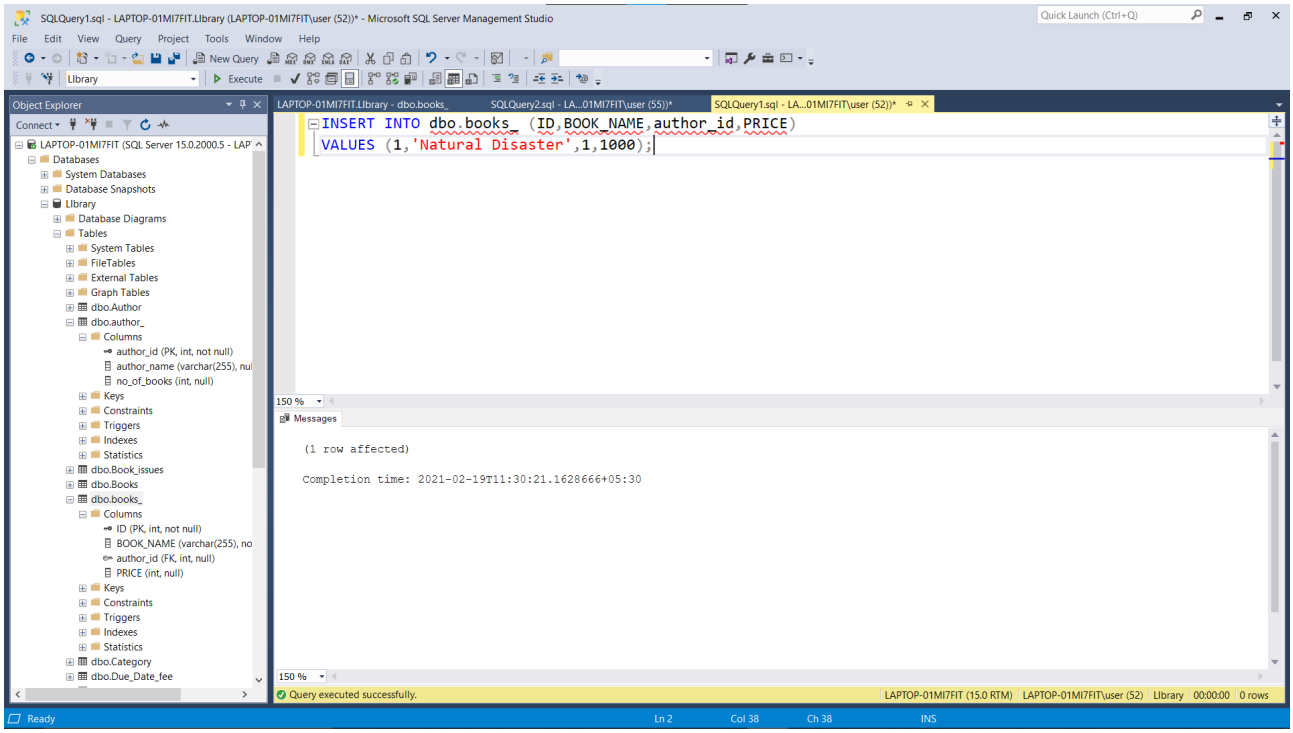
2)

Insert 20 Employees Data into all the tables. Use all the 3 methods that I have showcased

i)

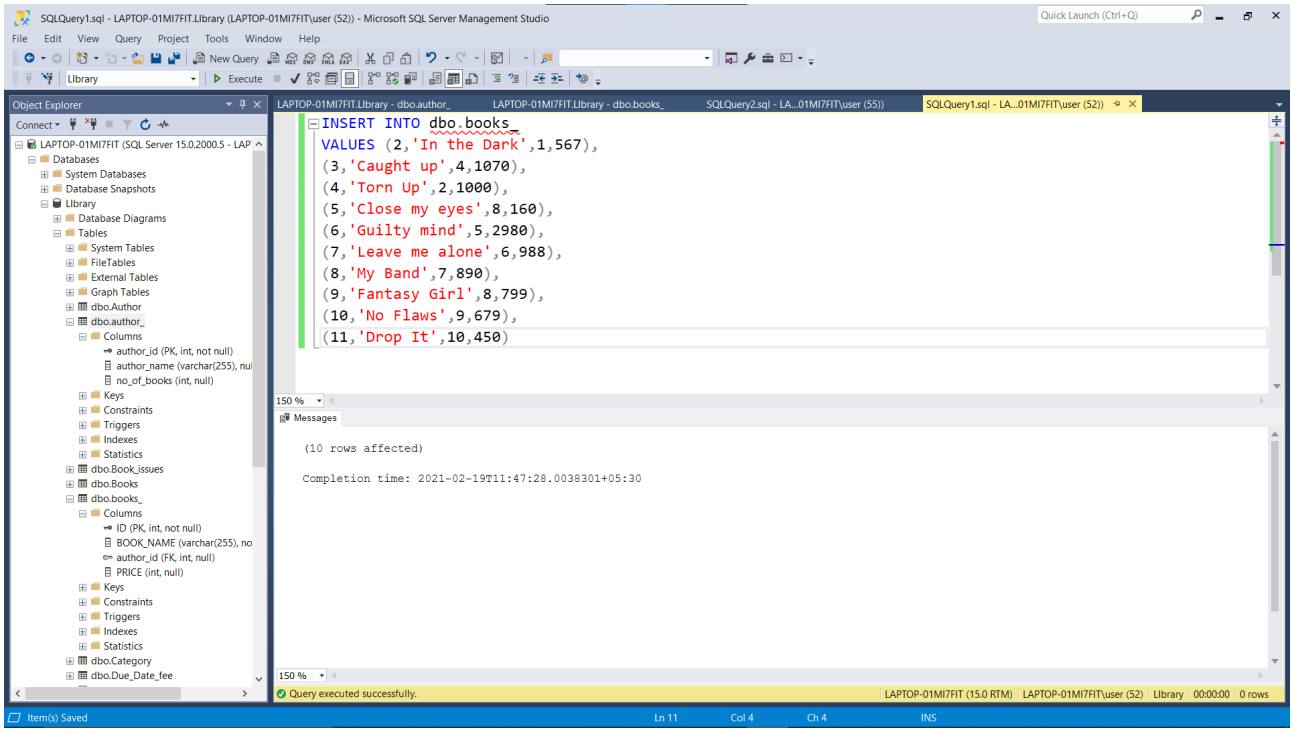
command ;-
```
INSERT INTO dbo.books_ (ID,BOOK_NAME,author_id,PRICE)
VALUES (1,'Natural Disaster',1,1000)
```

OUTPUT:-



ii)

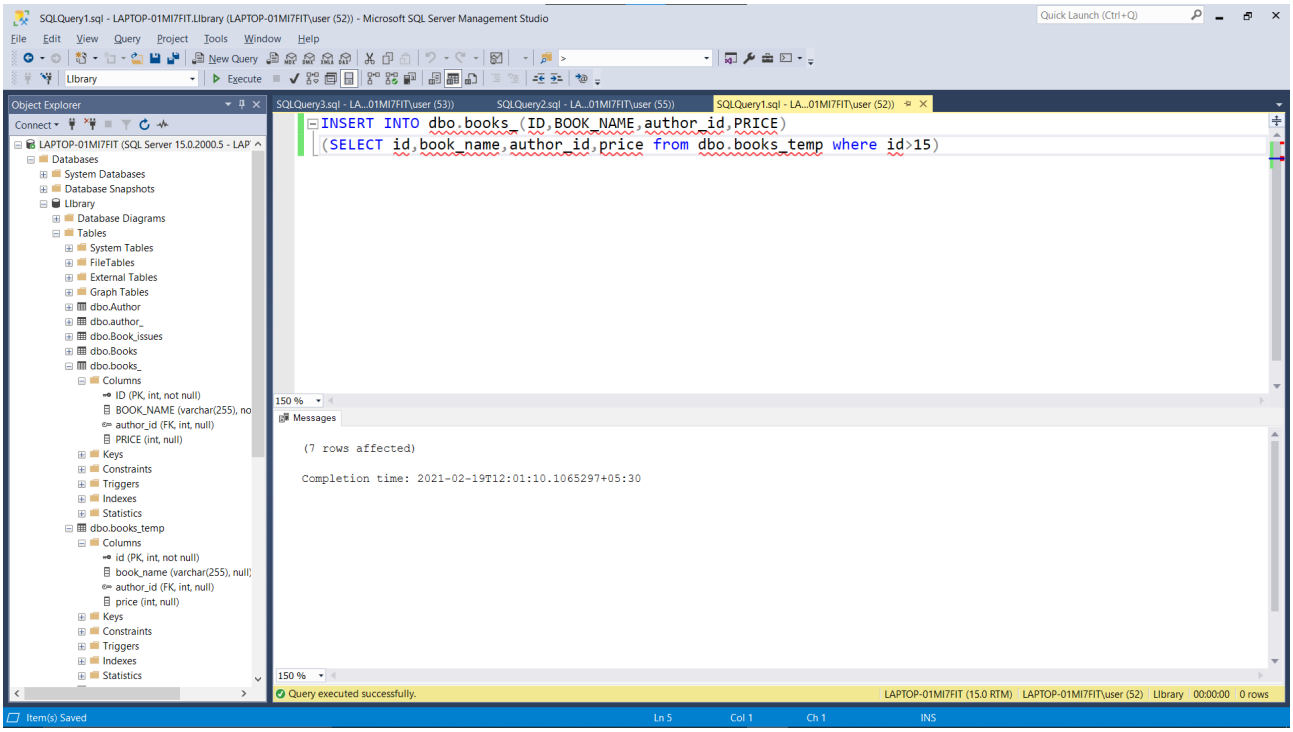
command ;- INSERT INTO dbo.books_
VALUES (2,In the Dark',1,567),
(3,'Caught up',4,1070),(4,'Torn Up',2,1000),etc,



iii)

command ;- INSERT INTO dbo.books (ID,BOOK_NAME,author_id,PRICE)
(select id,book_name,author_id,price from dbo.books_temp where id>15)

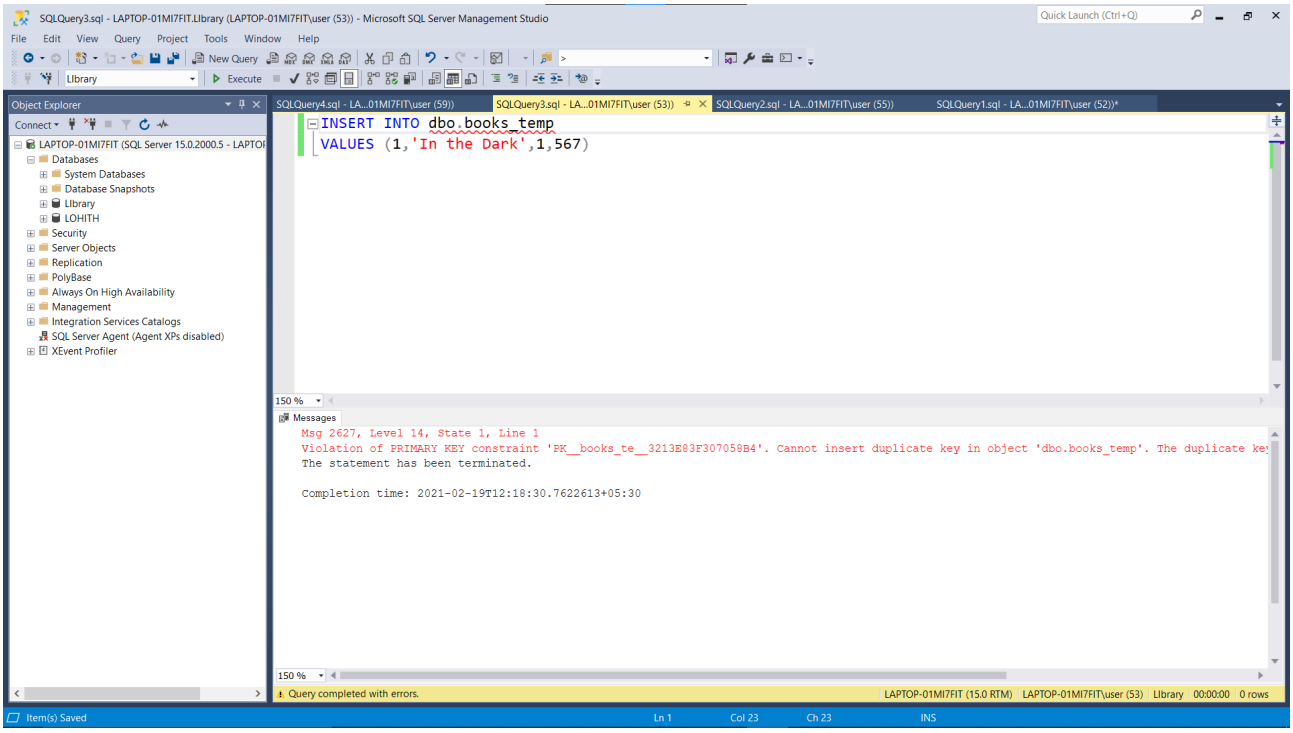
OUTPUT:-



3)
Show Violation of Primary Key, Unique Not Null and default key constraints through insertion.
i)
command ;-

```
INSERT INTO dbo.books_temp
VALUES (1,'In the Dark',1,567)
```

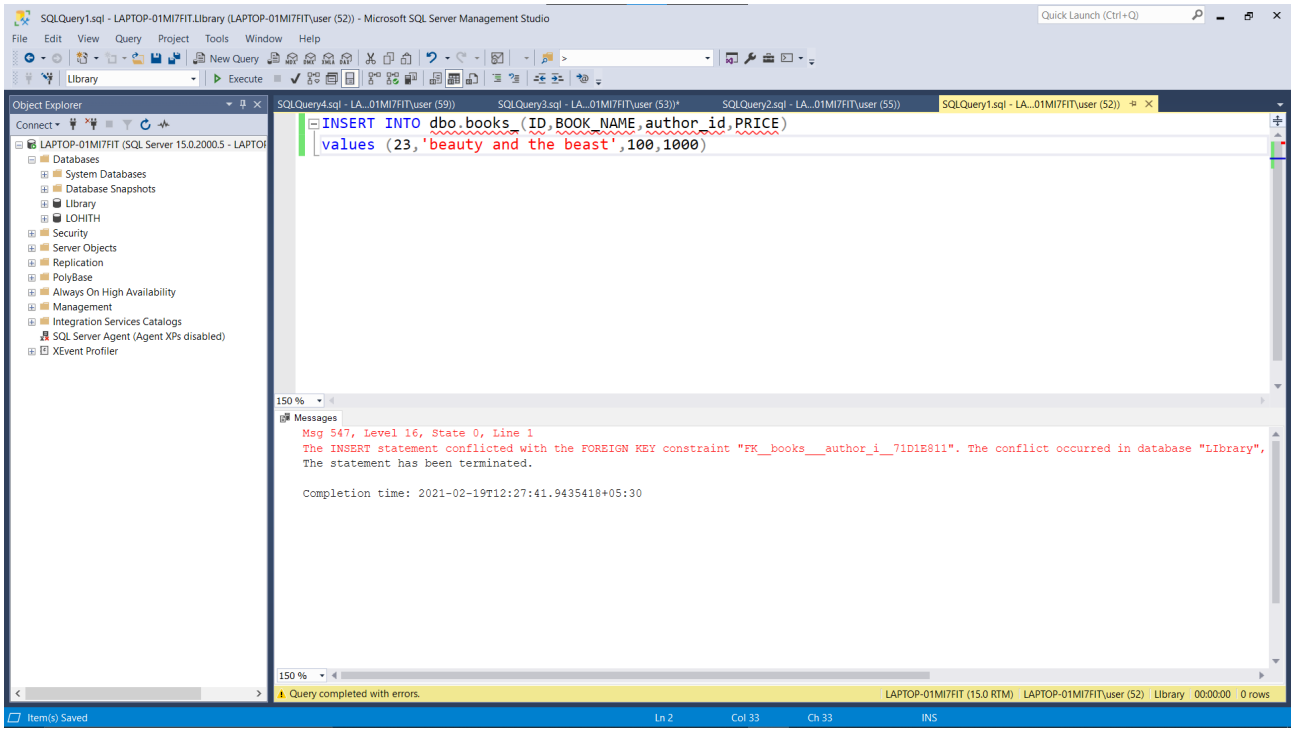
OUTPUT:-



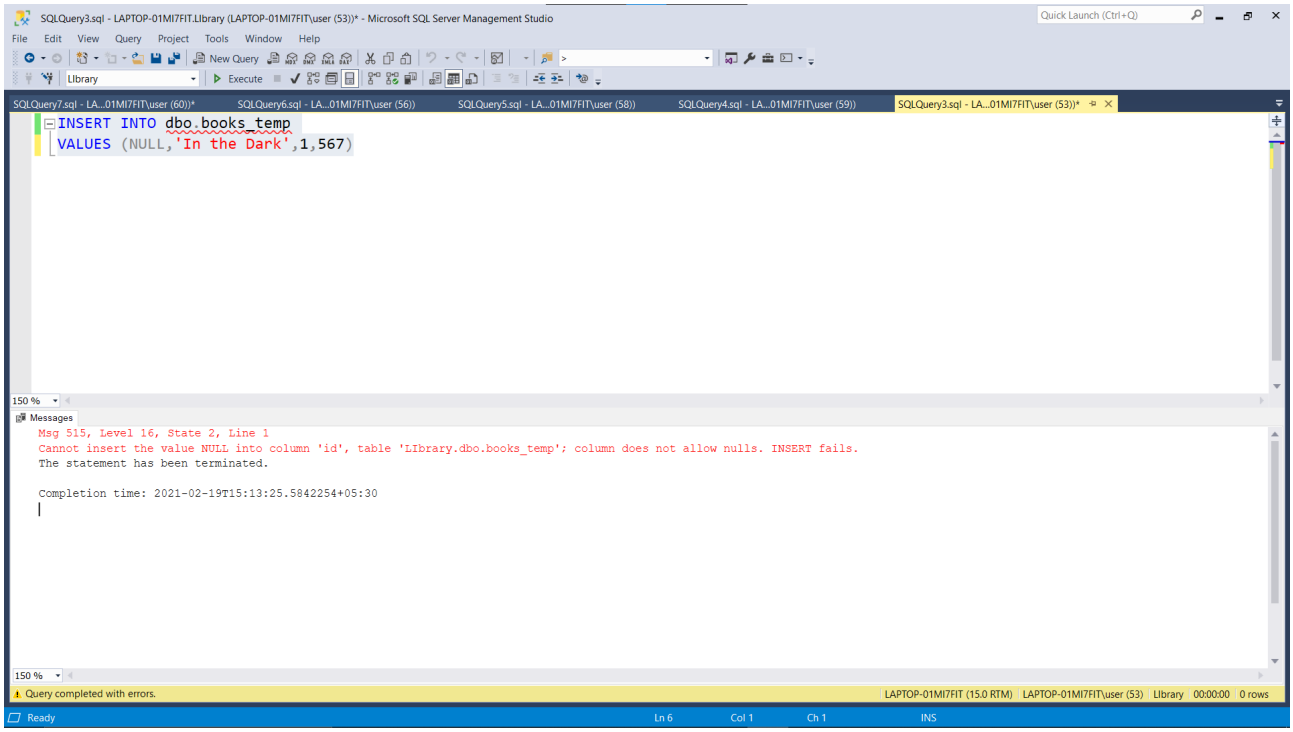
ii)
command: -

INSERT INTO dbo.booKs (ID,BOOK_NAME,author_id,PRICE)
values(23,’beauty and the beast’)

OUTPUT:-



iii) command ;- `INSERT INTO dbo.books_temp`
`VALUES (NULL,'In the Dark',1,567)`
OUTPUT :-

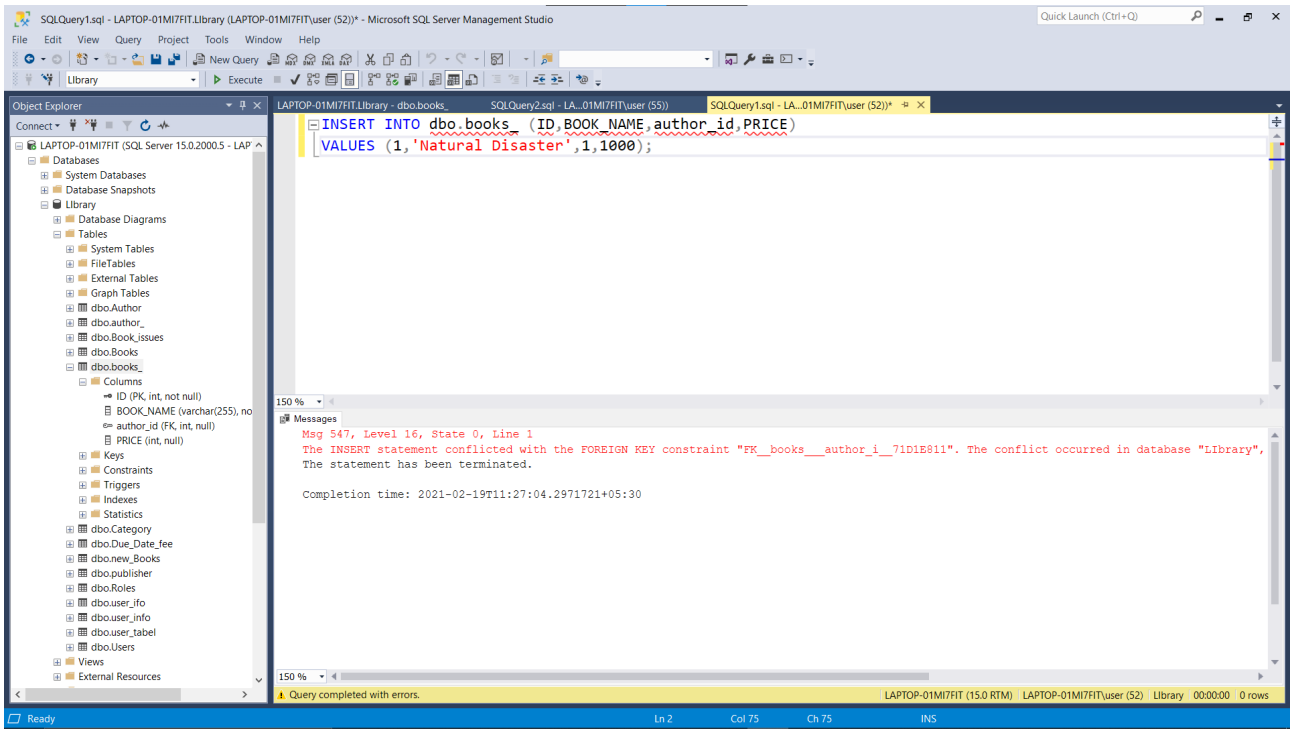


4)
Insert tuples into the table and see how foreign key constraint works if you try to

insert into dependent table first.

Command ;-

INSERT INTO dbo.books_ (ID,BOOK_NAME,author_id,PRICE)
values(1,'Natural Disaster,1,1000);
OUTPUT:-

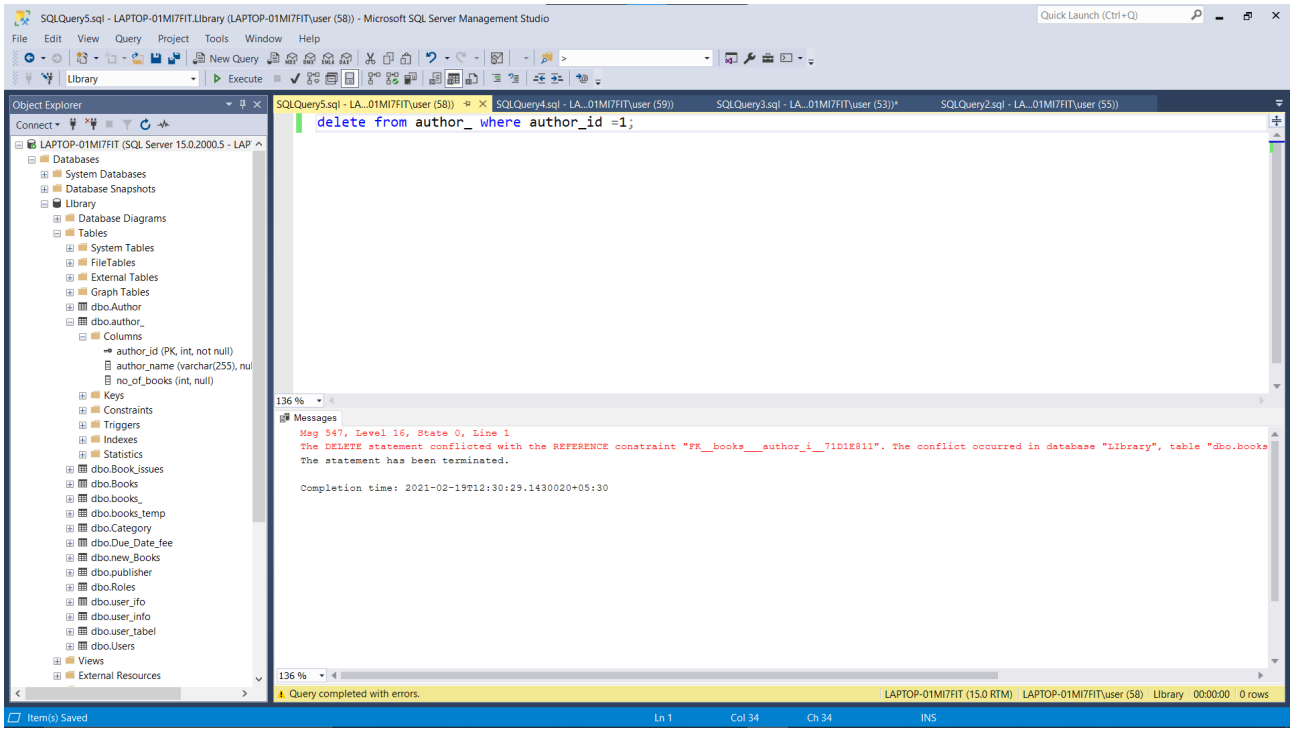


5)
Show Violation of Foreign Key Constraint when you try to delete from a base table. If you get an error explain why deletion gives an error

command ;-

delete from author_ where author_id = 1;

OUTPUT :-

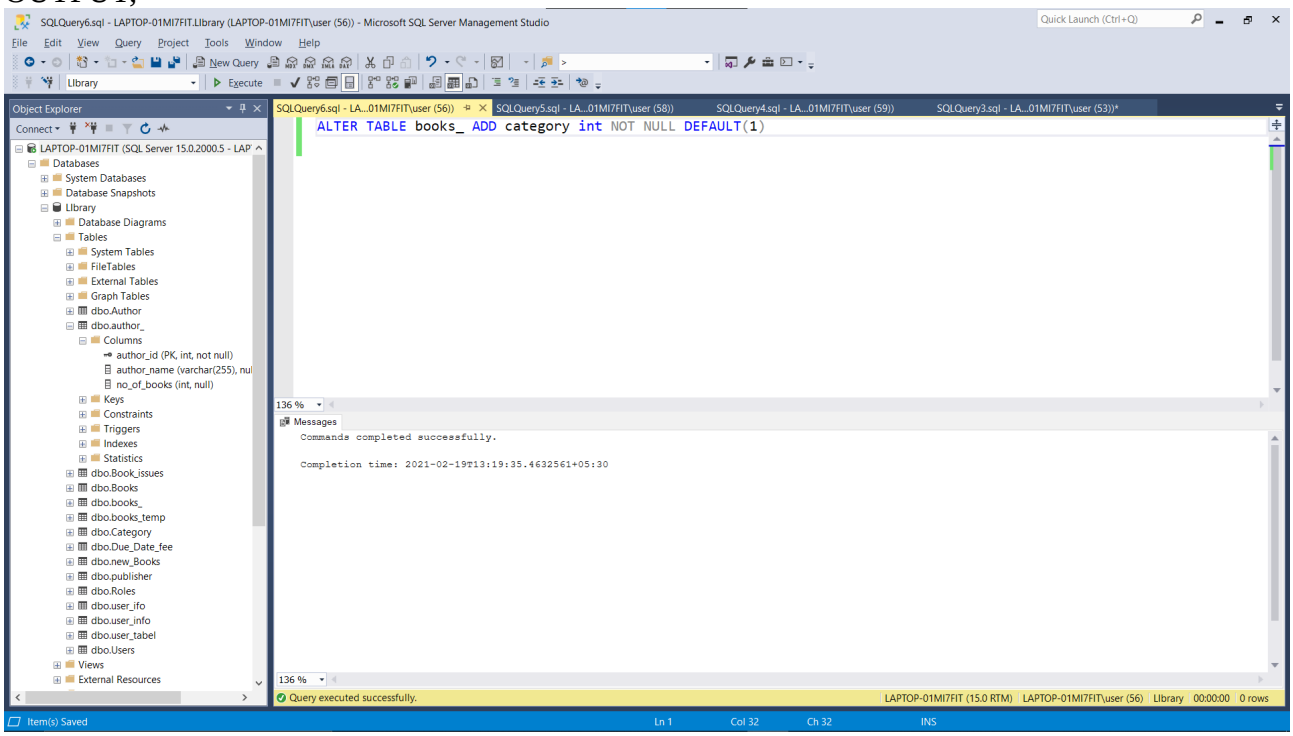


7)Add a column which has default value.

command:-

ALTER TABLE books_ ADD category int NOT NULL DEFAULT(1)

OUTPUT;-

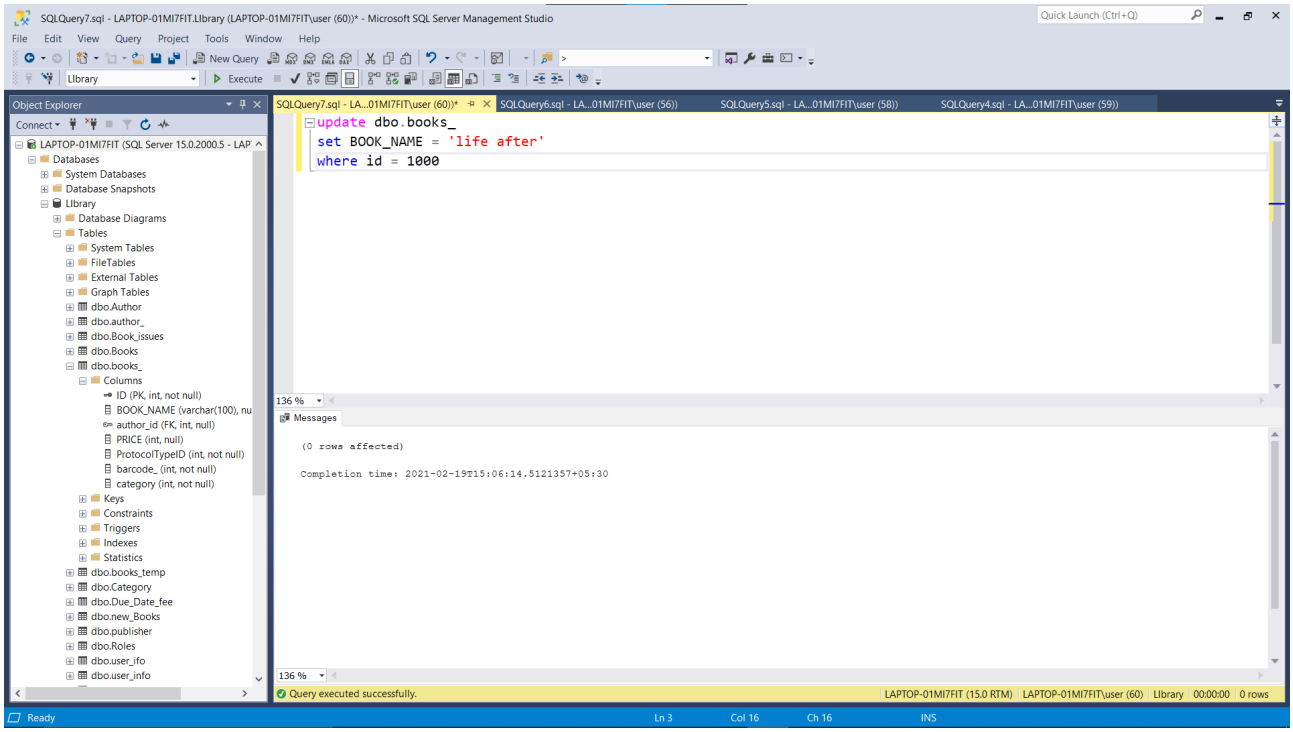


6)Try to update a non-existing entity data and check for error.

command ;-

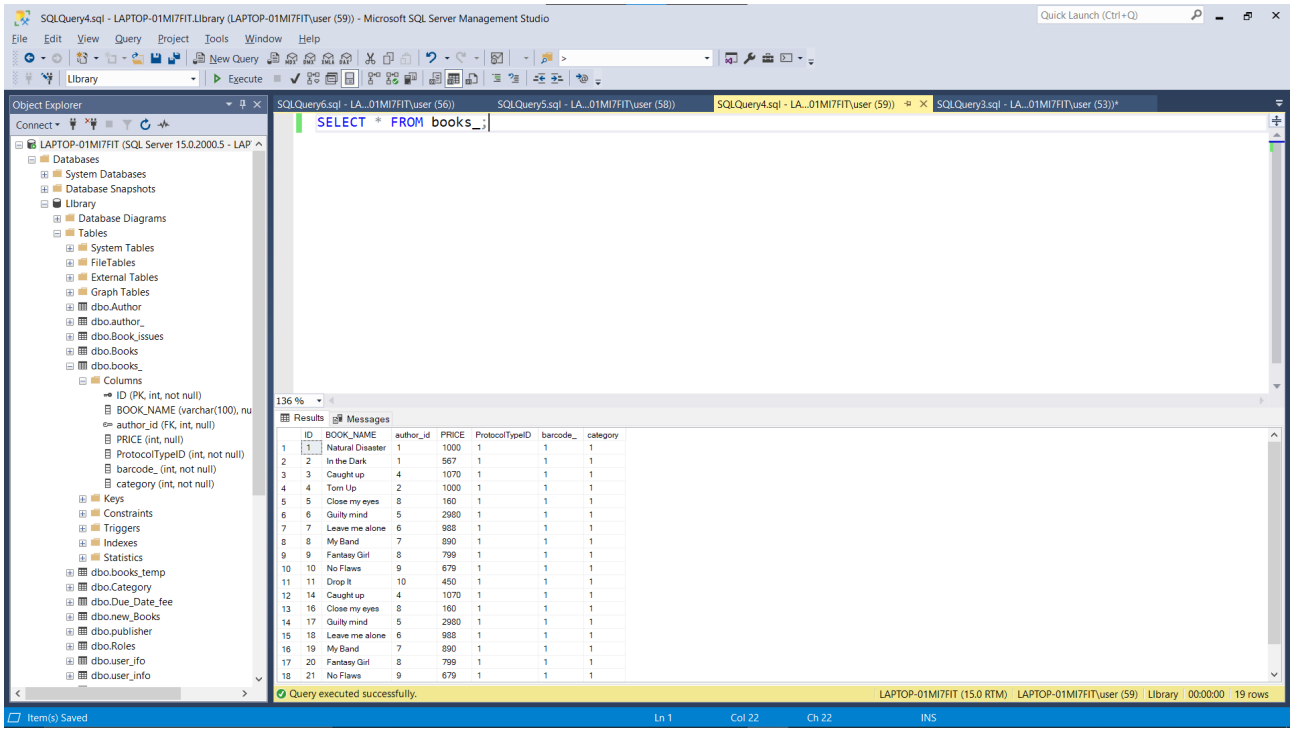
```
update dbo.books_
set BOOK_NAME = ‘life after’
where id = 1000
```

OUTPUT:-



8)
5 Simple Select queries to retrieve data from your database.

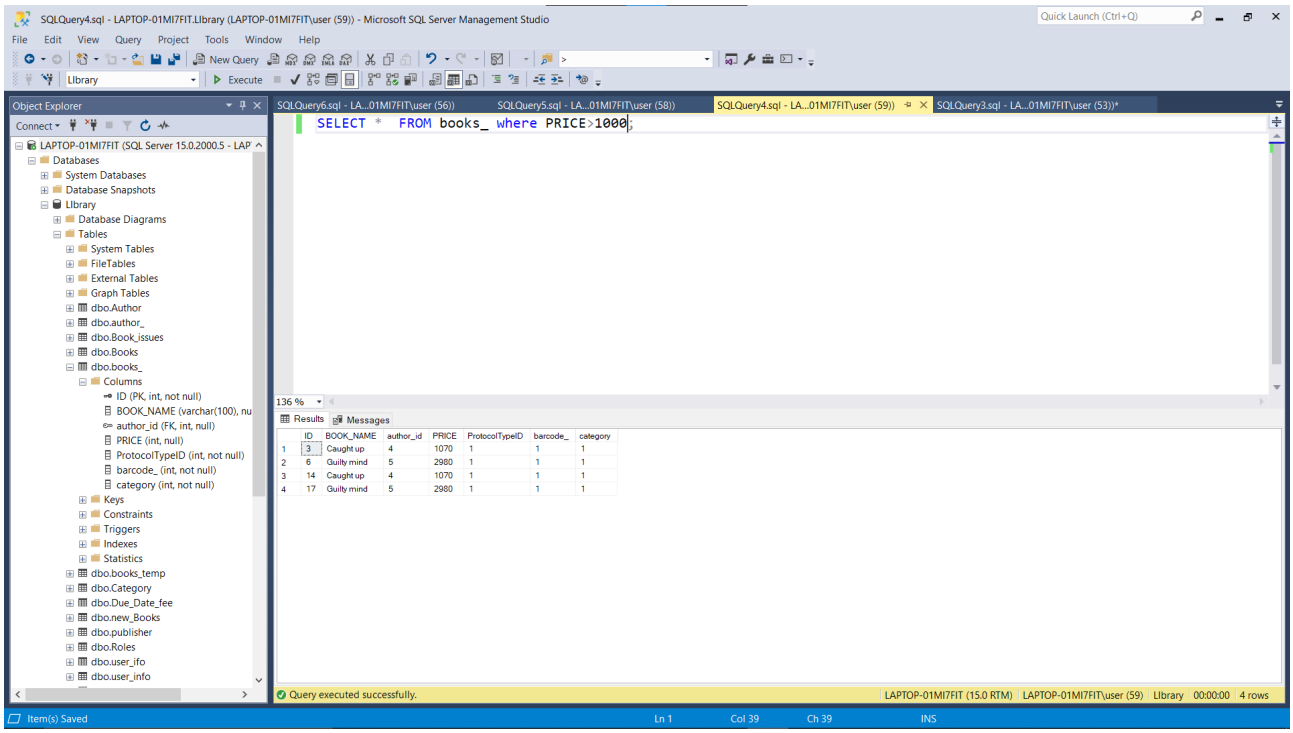
i)
command ;- `SELECT * FROM books_;`
OUTPUT:-



ii)
command ;-

```
SELECT *  FROM books_ where PRICE>1000;
```

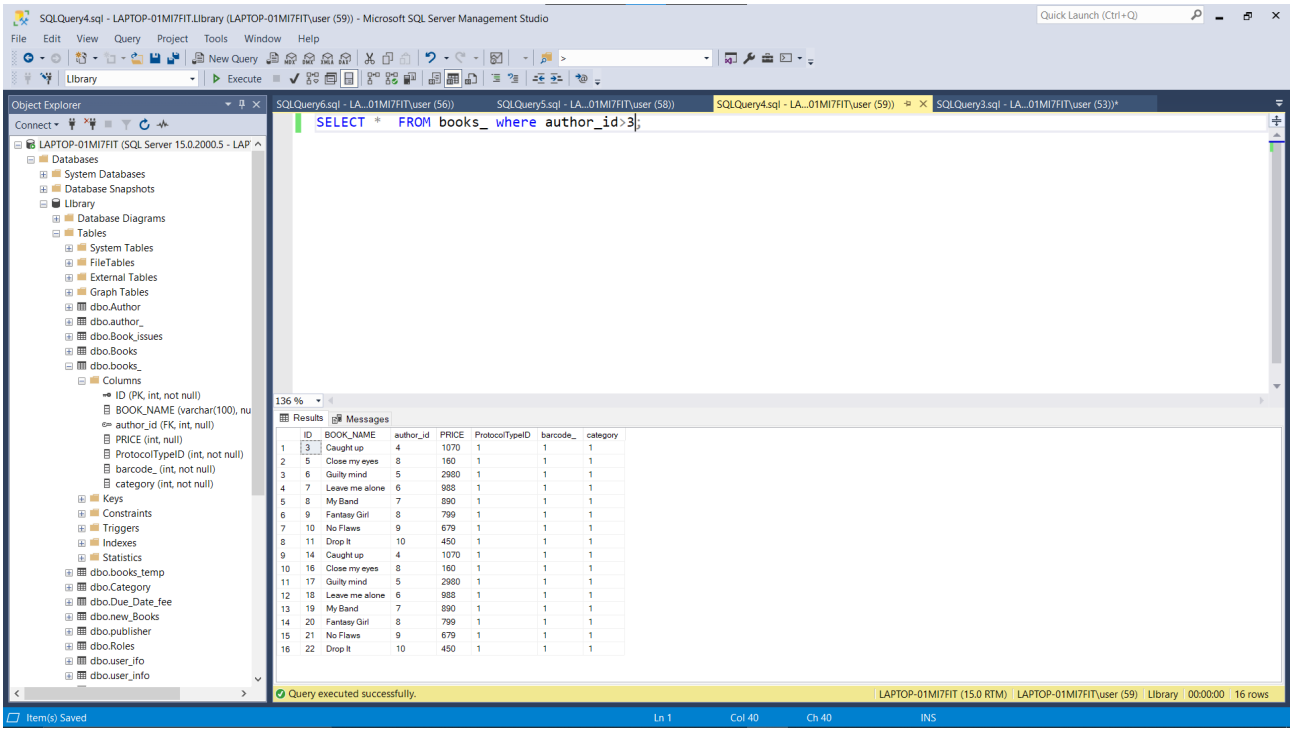
OUTPUT:-



iii)
commmand ;-

```
SELECT *  FROM books_ where author_id>3;
```

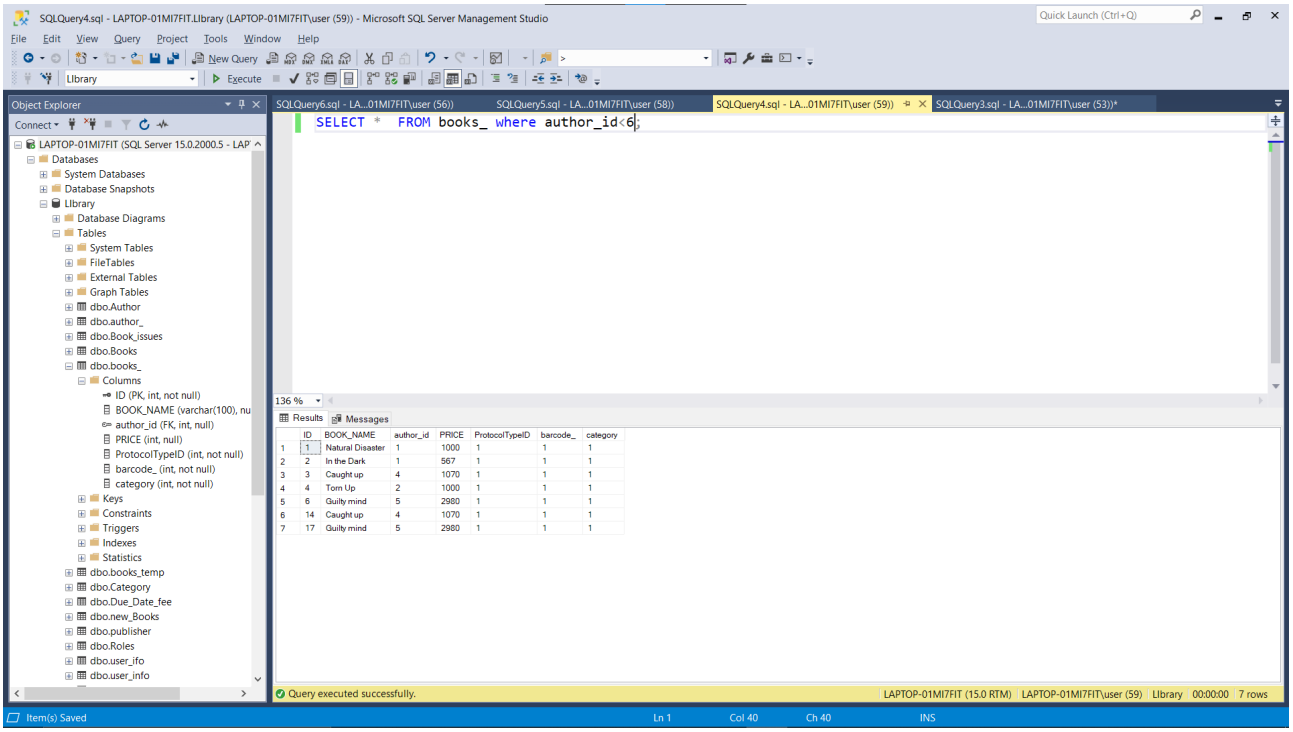
OUTPUT:-



iv)
command ;-

```
SELECT *  FROM books_ where author_id<6;
```

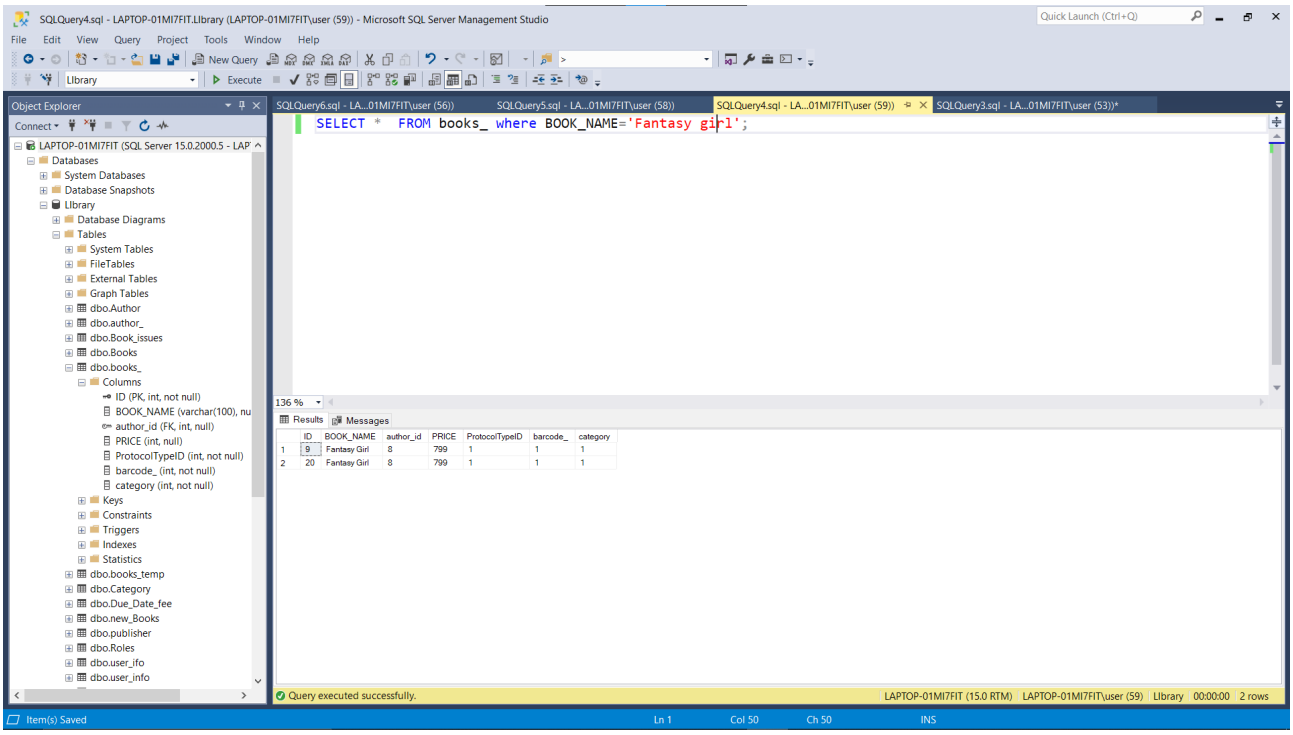
OUTPUT:-



v)
command ;-

```
SELECT *  FROM books_ where BOOK_NAME='Fantasy girl';
```

OUTPUT:-



9)
Show how Foreign key constraint effects Updating a dependent table when value is not existing and in Base table where the value is referred and you want to update it.

Command ;-

```
update dbo.books_
set author_id = 150
where id = 10
```

OUTPUT :-