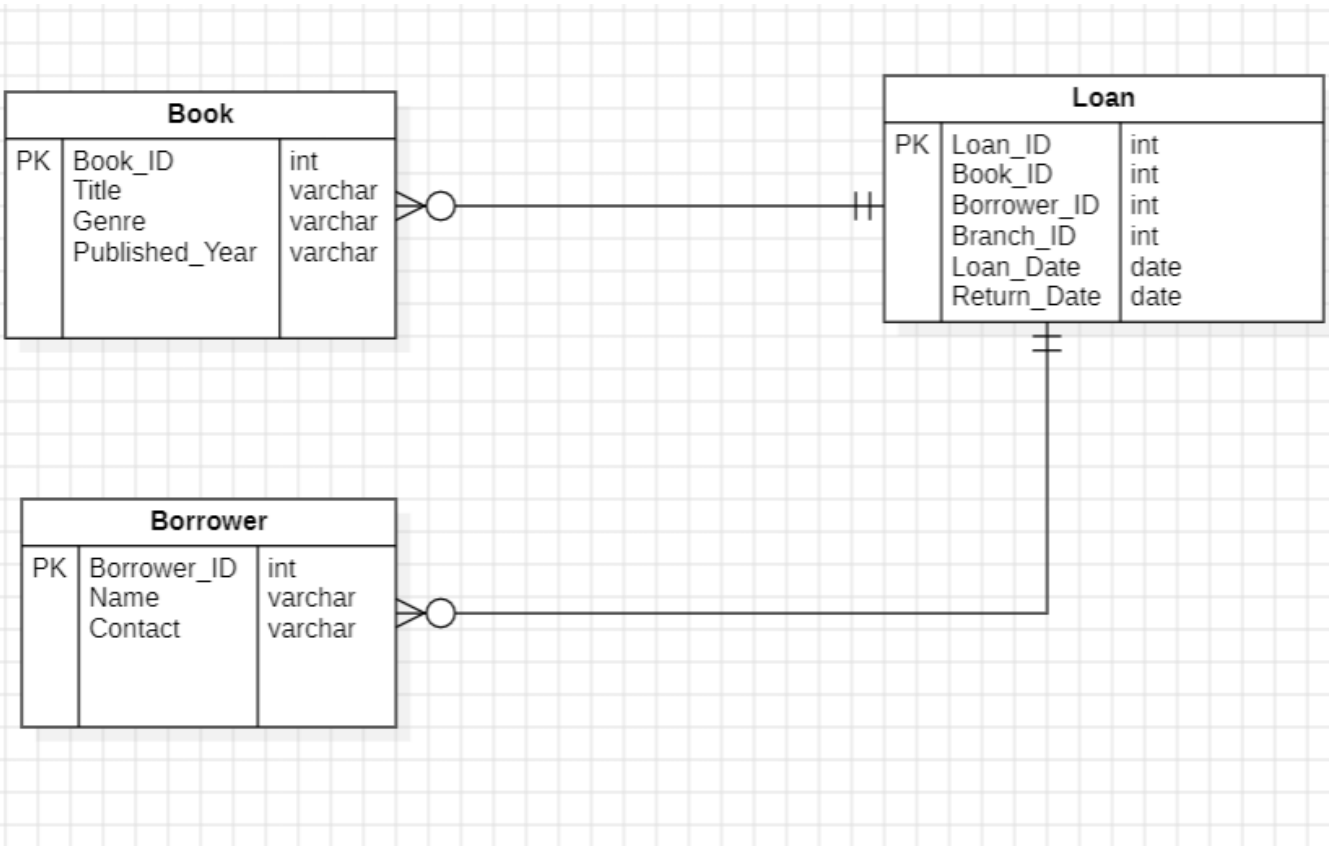
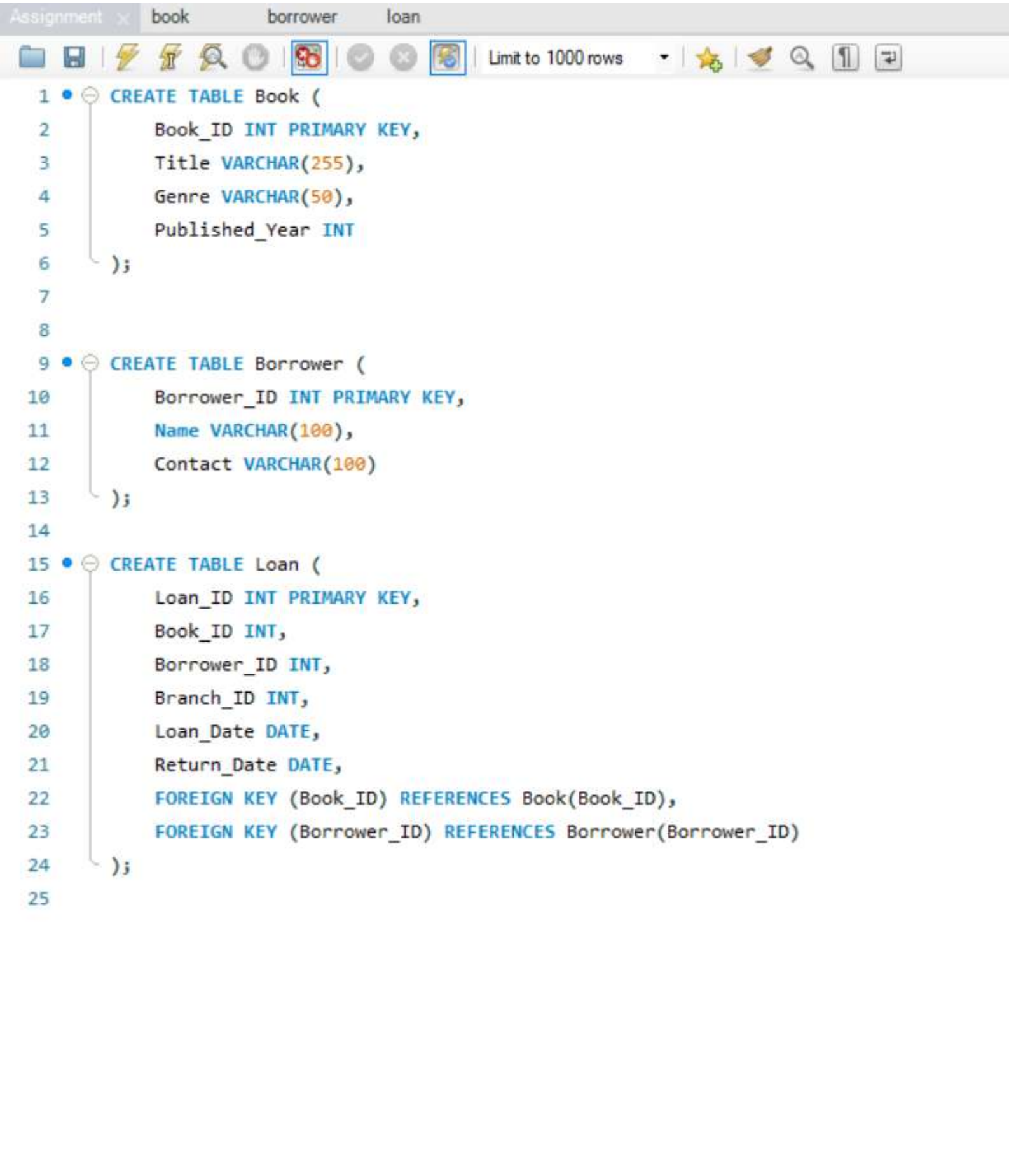
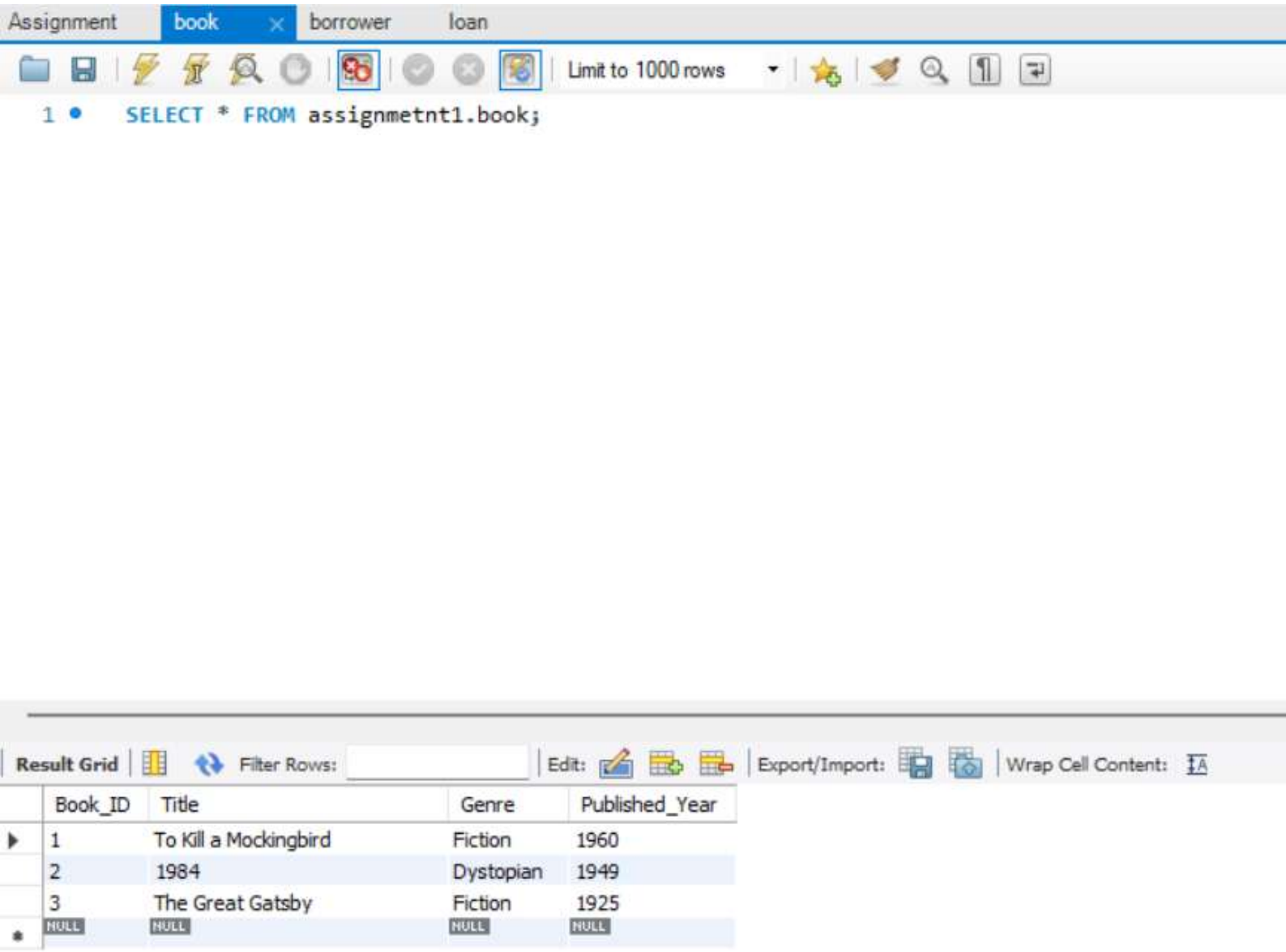
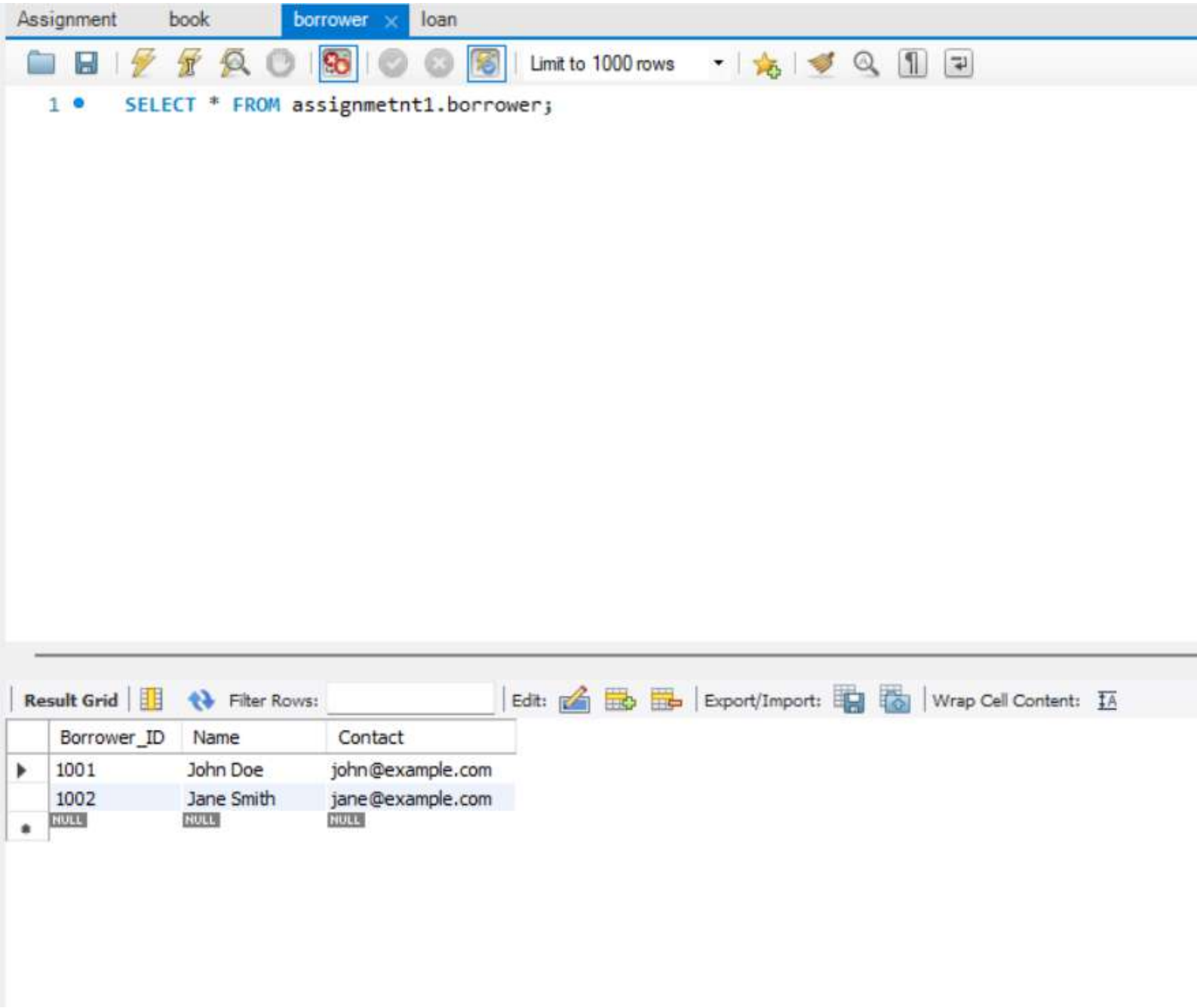
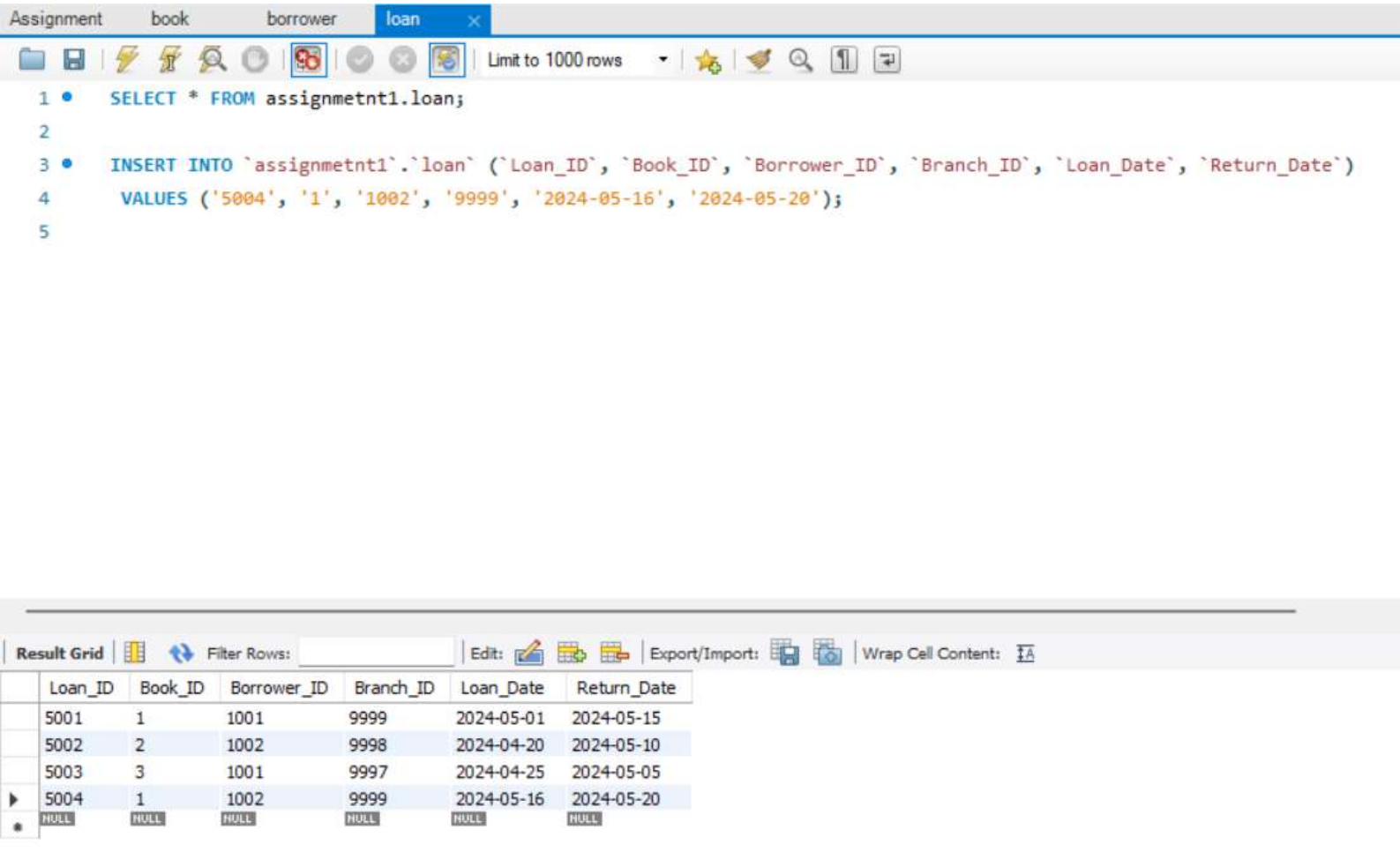

Book
PK
Book_ID
Title
Genre
Published_Year
int
varchar
varchar
varchar
Loan
PK
Loan_ID
Book_ID
Borrower_ID
Branch_ID
Loan_Date
Return_Date
int
int
int
int
date
date
Borrower
PK
Borrower_ID
Name
Contact
int
varchar
varchar


Assignment
book
borrower
loan
Limit to 1000 rows
CREATE TABLE Book (
Book_ID INT PRIMARY KEY,
Title VARCHAR(255),
Genre VARCHAR(50),
Published_Year INT
);
CREATE TABLE Borrower (
Borrower_ID INT PRIMARY KEY,
Name VARCHAR(100),
Contact VARCHAR(100)
);
CREATE TABLE Loan (
Loan_ID INT PRIMARY KEY,
Book_ID INT,
Borrower_ID INT,
Branch_ID INT,
Loan_Date DATE,
Return_Date DATE,
FOREIGN KEY (Book_ID) REFERENCES Book(Book_ID),
FOREIGN KEY (Borrower_ID) REFERENCES Borrower(Borrower_ID)
);


Assignment
book
borrower
loan
Limit to 1000 rows
1 • SELECT * FROM assignmetnt1.book;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
Book_ID
Title
Genre
Published_Year
1
To Kill a Mockingbird
Fiction
1960
2
1984
Dystopian
1949
3
The Great Gatsby
Fiction
1925
NULL
NULL
NULL
NULL


Assignment
book
borrower
loan
Limit to 1000 rows
1 • SELECT * FROM assignmetnt1.borrower;
Result Grid
Filter Rows:
Edit:
Export/Import:
Wrap Cell Content:
Borrower_ID
Name
Contact
1001
John Doe
john@example.com
1002
Jane Smith
jane@example.com
NULL
NULL
NULL



Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

Loan_ID	Book_ID	Borrower_ID	Branch_ID	Loan_Date	Return_Date
5001	1	1001	9999	2024-05-01	2024-05-15
5002	2	1002	9998	2024-04-20	2024-05-10
5003	3	1001	9997	2024-04-25	2024-05-05
5004	1	1002	9999	2024-05-16	2024-05-20
NULL	NULL	NULL	NULL	NULL	NULL

+ Code + Markdown | Run All Restart Clear All Outputs | Variables Outline ···

```
import pymysql
import pandas as pd

db_name = "assignmetnt1"
db_host = "localhost"
db_username = "root"
db_password = "3610"

try:
    conn = pymysql.connect(host=db_host, port=int(3306),
                           user="root",
                           password=db_password, db=db_name)
    if conn:
        print("Connection successful")
except Exception as e:
    print(e)
    print("Error")
```

[1]

```
Connection successful
```

```
df = pd.read_sql_query("SELECT * FROM loan", conn)
df
```

[2]

```
C:\Users\Dell\AppData\Local\Temp\ipykernel_20800\128096053.py:1: UserWarning: pandas only
  df = pd.read_sql_query("SELECT * FROM loan", conn)
```

	Loan_ID	Book_ID	Borrower_ID	Branch_ID	Loan_Date	Return_Date
0	5001	1	1001	9999	2024-05-01	2024-05-15
1	5002	2	1002	9998	2024-04-20	2024-05-10
2	5003	3	1001	9997	2024-04-25	2024-05-05
3	5004	1	1002	9999	2024-05-16	2024-05-20