# **NOSQL PART 1** project 1 Jade Acevedo

# Part 1: SQL

Book_Code	Book_Title	Publisher	Author
22	Stranger	Vintage	Camus
13	Dreamcatcher	Scribner	King
18	Beloved	Plume	Morrison
37	Nine	LB Books	Salinger
57	Catch 22	Scribner	Heller
61	Jazz	Plume	Morrison
69	Franny	LB Books	Salinger
75	Fall	Vintage	Camus
96	Grapes	Penguin	Morrison
98	Catcher	LB Books	Salinger

### ❖ Normalized Tables:

- O Authors Table:
  - AuthorName(Primary Key)
- O Publishers Table:
  - PublisherName (Primary Key)
- o Books Table:
  - Bookcode(Primary Key)
  - BookTitle
  - Publishername (Foreign Key referencing Publishers)
  - Authorname (Foreign Key referencing Authors)

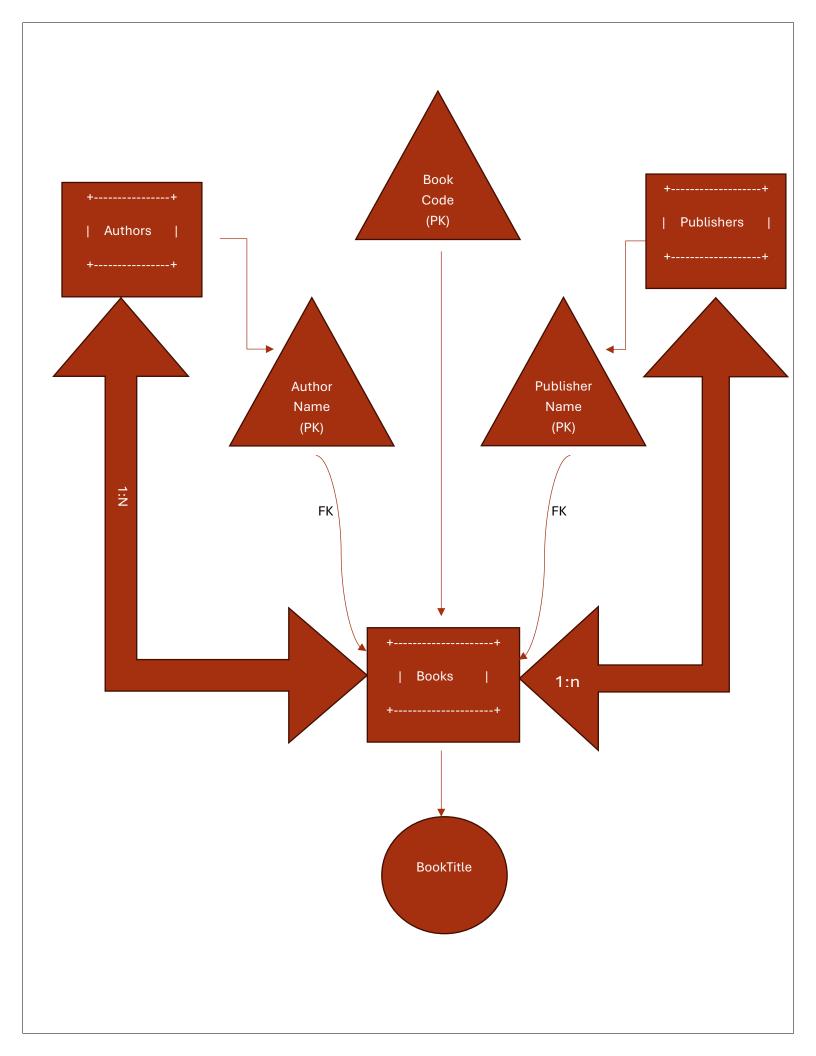
# Relationships

# 1. Books ↔ Authors

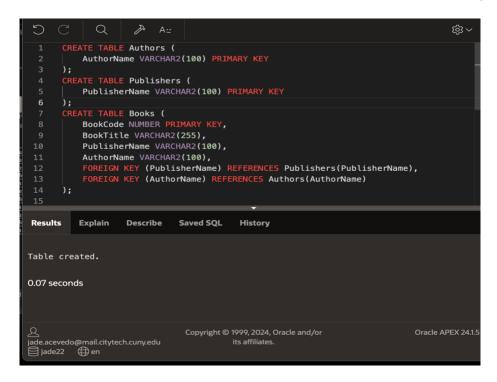
o One-to-Many: One author can write many books.

### 2. Books ↔ Publishers

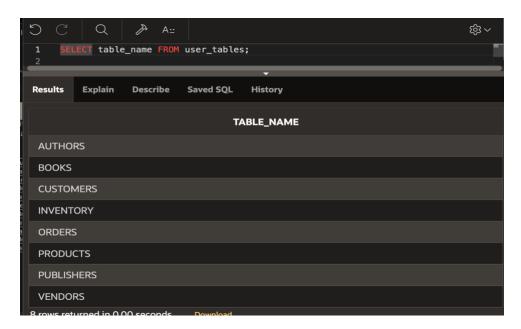
o One-to-Many: One publisher can publish many books.



1. Use SQL code to create the tables you identified in the EER diagram



2. Use SQL code to show that each of the tables has been created



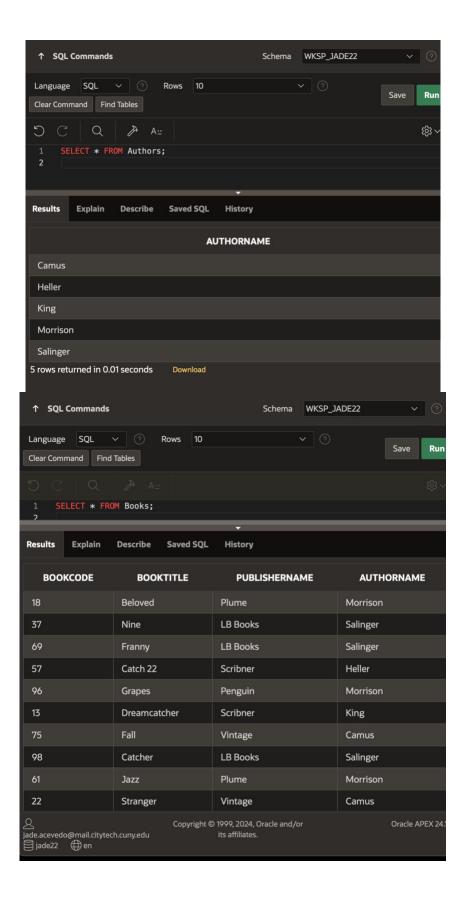
 Use SQL code to enter the information displayed in Table 1 into the tables you created

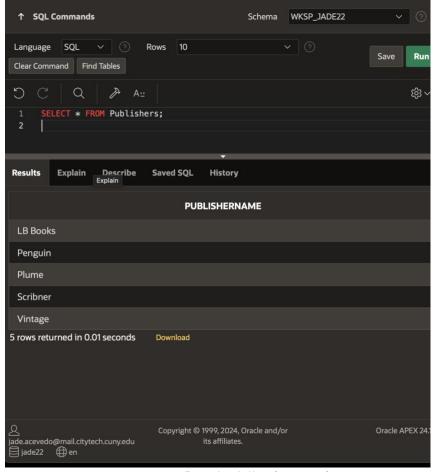
```
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (22, 'Stranger', 'Vintage', 'Camus');
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (13, 'Dreamcatcher', 'Scribner', 'King');
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (18, 'Beloved', 'Plume', 'Morrison');
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (37, 'Nine', 'LB Books', 'Salinger');
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (57, 'Catch 22', 'Scribner', 'Heller');
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (61, 'Jazz', 'Plume', 'Morrison');
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (69, 'Franny', 'LB Books', 'Salinger');
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (75, 'Fall', 'Vintage', 'Camus');
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (96, 'Grapes', 'Penguin', 'Morrison');
INSERT INTO Books (BookCode, BookTitle, PublisherName, AuthorName)
VALUES (98, 'Catcher', 'LB Books', 'Salinger');
```

```
1 INSERT INTO Authors (AuthorName) VALUES ('Camus');
2 INSERT INTO Authors (AuthorName) VALUES ('King');
3 INSERT INTO Authors (AuthorName) VALUES ('Morrison');
4 INSERT INTO Authors (AuthorName) VALUES ('Salinger');
5 INSERT INTO Authors (AuthorName) VALUES ('Heller');
```

```
INSERT INTO Publishers (PublisherName) VALUES ('Vintage');
INSERT INTO Publishers (PublisherName) VALUES ('Scribner');
INSERT INTO Publishers (PublisherName) VALUES ('Plume');
INSERT INTO Publishers (PublisherName) VALUES ('LB Books');
INSERT INTO Publishers (PublisherName) VALUES ('Penguin');
```

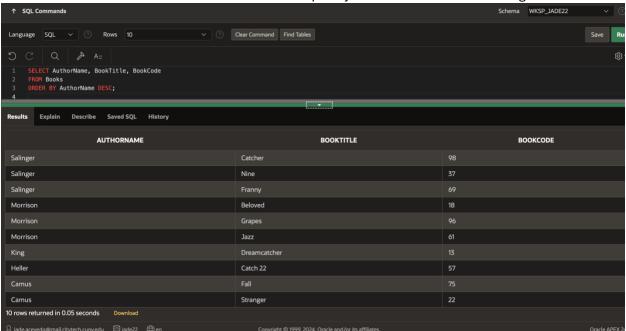
4. Use SQL code to show that the information has been entered into the appropriate tables



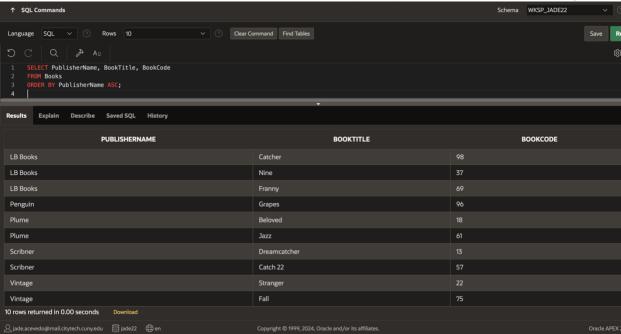


5. Run the following queries:

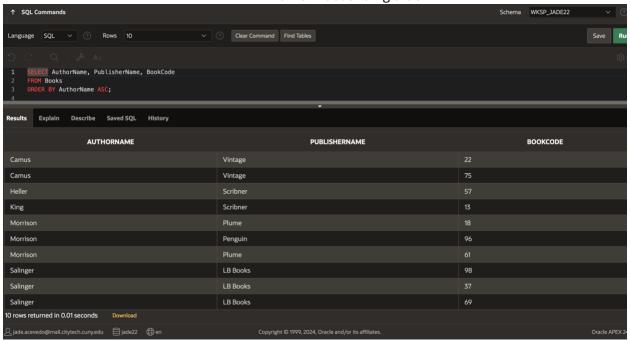
a. For each author name, show the book title. Your output should include author name and book title. Order the output by author name in descending order



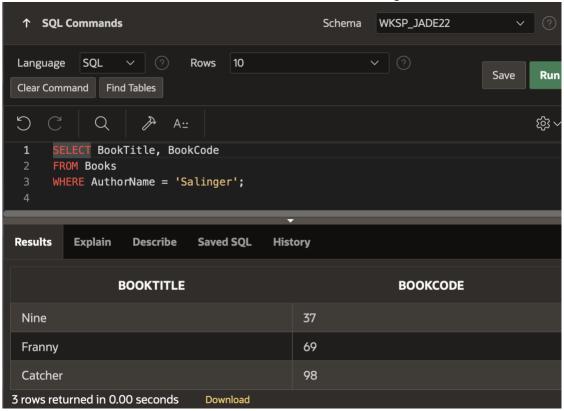
b. For each publisher, show the books they have published. Your output should include publisher name and book title. Order the output by publisher name in ascending order.



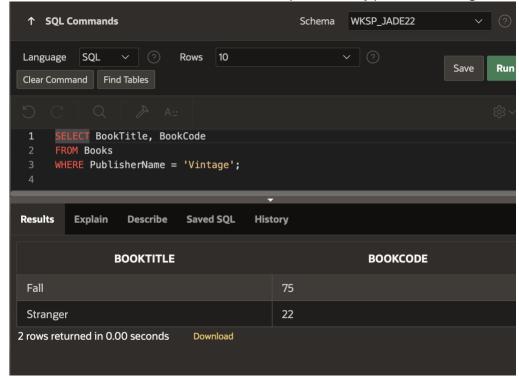
c. For each author, show the publisher who has published his work. Your output should include the author's name and the publisher's name. Order the output by author's name in ascending order.



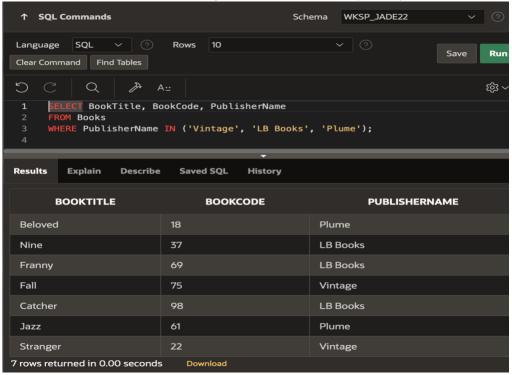
d. List the title of all the books which Salinger has written.



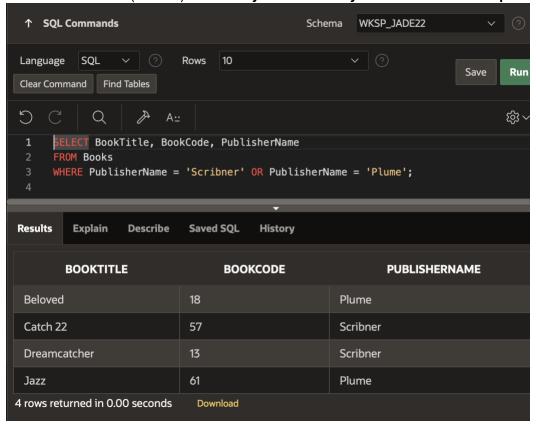
e. List the title of all the books published by publisher Vintage



f. List the title of all the books and the publisher's name for all books published by Vintage, LB Books or Plume (use IN)



g. List the title of the books and the publisher name for all books published by Scribner or Plume (use OR) \*\*\*NOTE: you should only have four lines of output



h. List the title of the book and the publisher name for all books published by Penguin and written by Morrison (use AND)

