

UNIVERSITY Database:

STUDENT

Name	Student_number	Class	Major
Smith	17	1	CS
Brown	8	2	CS

COURSE

Course_name	Course_number	Credit_hours	Department
Intro to Computer Science	CS1310	4	CS
Data Structures	CS3320	4	CS
Discrete Mathematics	MATH2410	3	MATH
Database	CS3380	3	CS

SECTION

Section_identifier	Course_number	Semester	Year	Instructor
85	MATH2410	Fall	07	King
92	CS1310	Fall	07	Anderson
102	CS3320	Spring	08	Knuth
112	MATH2410	Fall	08	Chang
119	CS1310	Fall	08	Anderson
135	CS3380	Fall	08	Stone

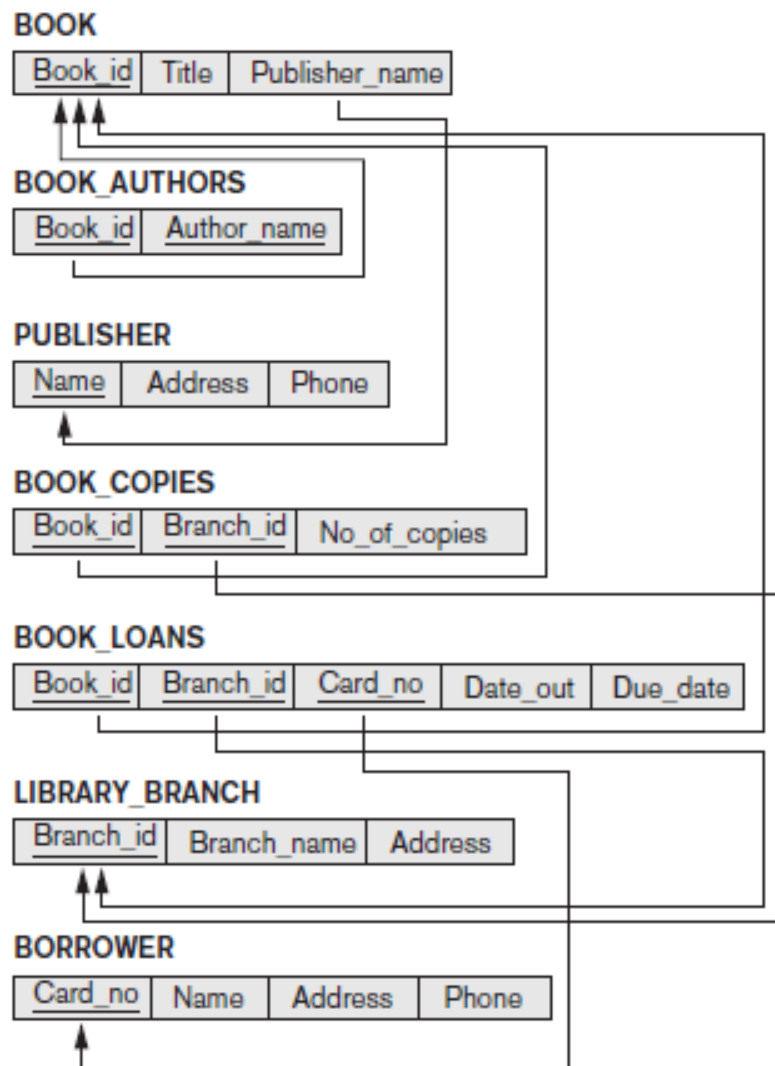
GRADE_REPORT

Student_number	Section_identifier	Grade
17	112	B
17	119	C
8	85	A
8	92	A
8	102	B
8	135	A

PREREQUISITE

Course_number	Prerequisite_number
CS3380	CS3320
CS3380	MATH2410
CS3320	CS1310

LIBRARY Database:



Files:

Output.jpg	Screenshot of the outputs for the two programs
uni.py	Python program - 1 to print student name and his/her GPA
due.py	Python program - 2 to print overdue books and borrowers
SQLQuery1_CreateDB_UNIVERSITY.sql	SQL Script to create the database for python program 1
SQLQuery2_CreateDB_LIBRARY.sql	SQL Script to create the database for python program 2
SQLQuery1_GPA.sql	SQL Script - 1 to print student name and his/her GPA
SQLQuery2_OVERDUE.sql	SQL Script - 2 to print overdue books and borrowers
Readme.pdf	Instructions file

How to run the programs:

- 1) Connect Microsoft SQL Server (Change the Driver and Server name in the .py files accordingly)
- 2) Create the UNIVERSITY Database by executing SQLQuery1_CreateDB_UNIVERSITY.sql
- 3) Create the LIBRARY Database by executing SQLQuery2_CreateDB_LIBRARY.sql
- 4) Execute uni.py and enter the Student's to retrieve his/her GPA
- 5) Execute due.py to print Book Titles and Borrowers for book that became overdue yesterday
- 6) Execute SQLQuery1_GPA.sql and SQLQuery2_OVERDUE.sql to check the outputs

Output:

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18362.720]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Ruchika\RuchikaS\PESU\Sem 4\DBMS\SQL\Assignment3>python uni.py
Database: UNIVERSITY

Enter the Student's Name to get his/her GPA:
Smith

Student's Name:  Smith
Student's GPA:   2.5

C:\Users\Ruchika\RuchikaS\PESU\Sem 4\DBMS\SQL\Assignment3>python uni.py
Database: UNIVERSITY

Enter the Student's Name to get his/her GPA:
Brown

Student's Name:  Brown
Student's GPA:   3.75

C:\Users\Ruchika\RuchikaS\PESU\Sem 4\DBMS\SQL\Assignment3>python uni.py
Database: UNIVERSITY

Enter the Student's Name to get his/her GPA:
Kim

Error: Kim NOT FOUND

C:\Users\Ruchika\RuchikaS\PESU\Sem 4\DBMS\SQL\Assignment3>python due.py
Database: LIBRARY

Overdue books -
Book Title      Borrower
Moon Palace     Bailey D. Eubanks
The Magic Compass  Vernon G. Muller
Simple Gifts     Darin B. Mayes
The Plague       Vivian W. Reimer
Jacobs Room      Vivian W. Reimer
The Armageddon Inheritance  Hosea T. Roberts
Garden of Scandal  Gloria L. Beckett
Emergence        Louie D. Byers
Everything Bad is Good for You  Katherine O. Butts

C:\Users\Ruchika\RuchikaS\PESU\Sem 4\DBMS\SQL\Assignment3>
```