

CS 6360 Database Design
Instructor : Chris Irwin Davis

Individual Project
Milestone 1



Submitted by
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Goal

The goal of this project is to create a database host application that interfaces with a backend SQL database implementing a Library Management System.

Introduction

- **Purpose**

The Purpose of the document is to describe the implementation of Library Management Application. The Library application is to be designed in order to search a book,author from books and author list , add a new book or author

- **Approach**

The Database design for the application is composed of definitions for database objects derived by mapping entities to tables,attributes to columns, unique identifiers to unique keys and relationship to foreign keys.

- **Overview**

This document describes the implementation of Database connection to the Programming Language used in this project.

Milestone1

Connect your Database to your Programming Language

Technologies

- DataBase : MySql
- Programming Language : Python 3 with Tkinter enabled

Architecture

- The entire application was planned to develop in python importing the tkinter module.
- Tables are created in the database using MYSQL Workbench.
- Data from the CSV files are imported into the tables created using import wizard.
- Need to Implement the remaining functionalities i.e, Book Search and Availability,Book Loans ,Borrower Management and Fines.

Conclusion

In this I have Successfully connected to my database and displayed the borrowers data for verification

```
PS C:\Users\nxk210028\Documents\DB\Project\Individual> c:; cd 'c:\Users\nxk210028\Documents\DB\Project\Individual'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\nxk210028\.vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '51057' '--' 'c:\Users\nxk210028\Documents\DB\Project\Individual\Main.py'
Connected to MySQL 8.0.31
Connected to the given database: ('library',)
MySQL connection is closed
PS C:\Users\nxk210028\Documents\DB\Project\Individual> □
```

Display of Top 30 Borrowers Data from the Database:

Library

	SEARCH	+Add New	Delete	
ID000001	850-47-3740	Mark Morgan	5677 Coolidge Street,Plano,TX	(469) 904-1438
ID000002	256-95-4382	Eric Warren	9062 Schurz Drive,Dallas,TX	(214) 701-8127
ID000003	256-51-5268	Robert Harper	7786 Sachs Place,Plano,TX	(214) 875-5911
ID000004	976-95-2914	Donna Franklin	3 Magdeline Terrace,Plano,TX	(214) 800-6127
ID000005	906-63-3588	Linda King	41260 Kedzie Terrace,Dallas,TX	(469) 213-2549
ID000006	206-26-7141	Judy Holmes	6583 Manitowish Hill,Dallas,TX	(972) 898-5909
ID000007	898-61-3567	Deborah Lawrence	2 Hermina Trail,Dallas,TX	(972) 900-2951
ID000008	644-25-0492	Adam Johnston	05671 Norway Maple Court,Dallas,TX	(469) 743-0176
ID000009	678-12-4697	Pamela Carr	1848 Fordem Avenue,Richardson,TX	(972) 247-9852
ID000010	562-33-7951	Daniel Fisher	400 Cody Lane,Plano,TX	(214) 891-7743
ID000011	441-90-7753	Stephen Fields	99 Fair Oaks Drive,Plano,TX	(214) 801-3069
ID000012	305-53-3736	Walter Ferguson	814 Sutteridge Point,Dallas,TX	(469) 945-8172
ID000013	634-61-6311	Paul Cook	58295 Pierstorff Pass,Richardson,TX	(469) 932-0168
ID000014	661-24-6360	Roy Smith	563 Fairview Park,Dallas,TX	(214) 911-4724
ID000015	350-83-8412	Michelle Gardner	28309 Paget Court,Plano,TX	(469) 974-2681
ID000016	439-75-5475	George Powell	31 Clove Crossing,Dallas,TX	(972) 885-7291
ID000017	431-61-5822	Nicholas Hudson	29 Esker Trail,Dallas,TX	(469) 698-4000
ID000018	879-82-7179	Linda Henderson	117 Katie Center,Dallas,TX	(469) 997-0832
ID000019	484-96-1826	Gregory Fowler	42454 Hermina Plaza,Dallas,TX	(214) 936-8301
ID000020	562-52-7080	Carol Sanders	99600 Moland Way,Dallas,TX	(214) 762-1061
ID000021	876-61-5170	Mark Hamilton	76425 Dixon Hill,Dallas,TX	(972) 802-7903
ID000022	139-71-1123	Anthony Brown	8691 Walton Terrace,Dallas,TX	(972) 947-3376
ID000023	239-16-6210	James Rivera	4 Golden Leaf Trail,Dallas,TX	(214) 761-8129
ID000024	283-06-7717	Tammy Cole	22 Atwood Parkway,Dallas,TX	(469) 292-1882
ID000025	371-60-9878	Donald Bowman	196 Golf View Terrace,Dallas,TX	(214) 956-6083
ID000026	438-78-7652	Susan Gomez	601 Warbler Point,Richardson,TX	(972) 877-1341
ID000027	893-37-1519	Juan Martin	846 Johnson Circle,Dallas,TX	(214) 828-5694
ID000028	434-92-5388	Samuel Bailey	1367 Northport Drive,Dallas,TX	(972) 972-2250
ID000029	444-50-9807	Paul White	24775 Melvin Place,Dallas,TX	(469) 459-4087
ID000030	557-41-0386	Gregory Clark	259 Porter Avenue,Dallas,TX	(972) 979-5771