Database Design for Central Library of Calgary

SUBTITLE:
Supporting
Community Access
to Knowledge

• Group 5

- team members
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- Harleen kaur
- Lucky Patel
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Introduction

•The Central Library of Calgary is an active and community-focused facility that provides services to thousands of its members through a broad collection of publications, digital resources, and events. To keep up with its rising demands, an accurate and scalable database system must be installed to automate library operations and improve user experience.

Overview

- Mission statement
- Objectives
- Tables
- Relationships
- Feedback



Mission statement



The mission of the Central Library Calgary is to serve our community by making a vast array of books, and resources easily accessible.

Diversity of books Easy accessibility





objectives



To manage the catalogue of books efficiently.



To facilitate user registrations and account management.



To provide reports for library management and decision-making.

Tables Employee Branch Books Customer Event and Return Supplier Issues status program Status data

Table structure

Branch table

Field	Data Type
Branch ID	INT (Primary key)
Branch Name	VARCHAR (200)
Address	VARCHAR (100)
Contact	VARCHAR (20)

Employees table

Field	Data Type
Employee ID	INT (primary key)
name	VARCHAR (200)
position	VARCHAR (100)
salary	VARCHAR (20)
Branch id	INT(foreign key)
Hired date	INT

Books

Field Data Type Book ID INT (primary key) Title VARCHAR (200) Author VARCHAR (100) ISBN VARCHAR (20) Publish Date Date Branch ID INT

Issue status

Field	Data Type
Issue ID	INT (Primary)
Book id	INT(FOREIGN)
Customer id	INT(FOREIGN)
Issue Date	DATE
Due date	DATE
status	VARCHAR

Customer

Field	Data Type
Customer id	INT (primary key)
Name	VARCHAR (200)
email	VARCHAR (100)
phone	VARCHAR (20)

Return status

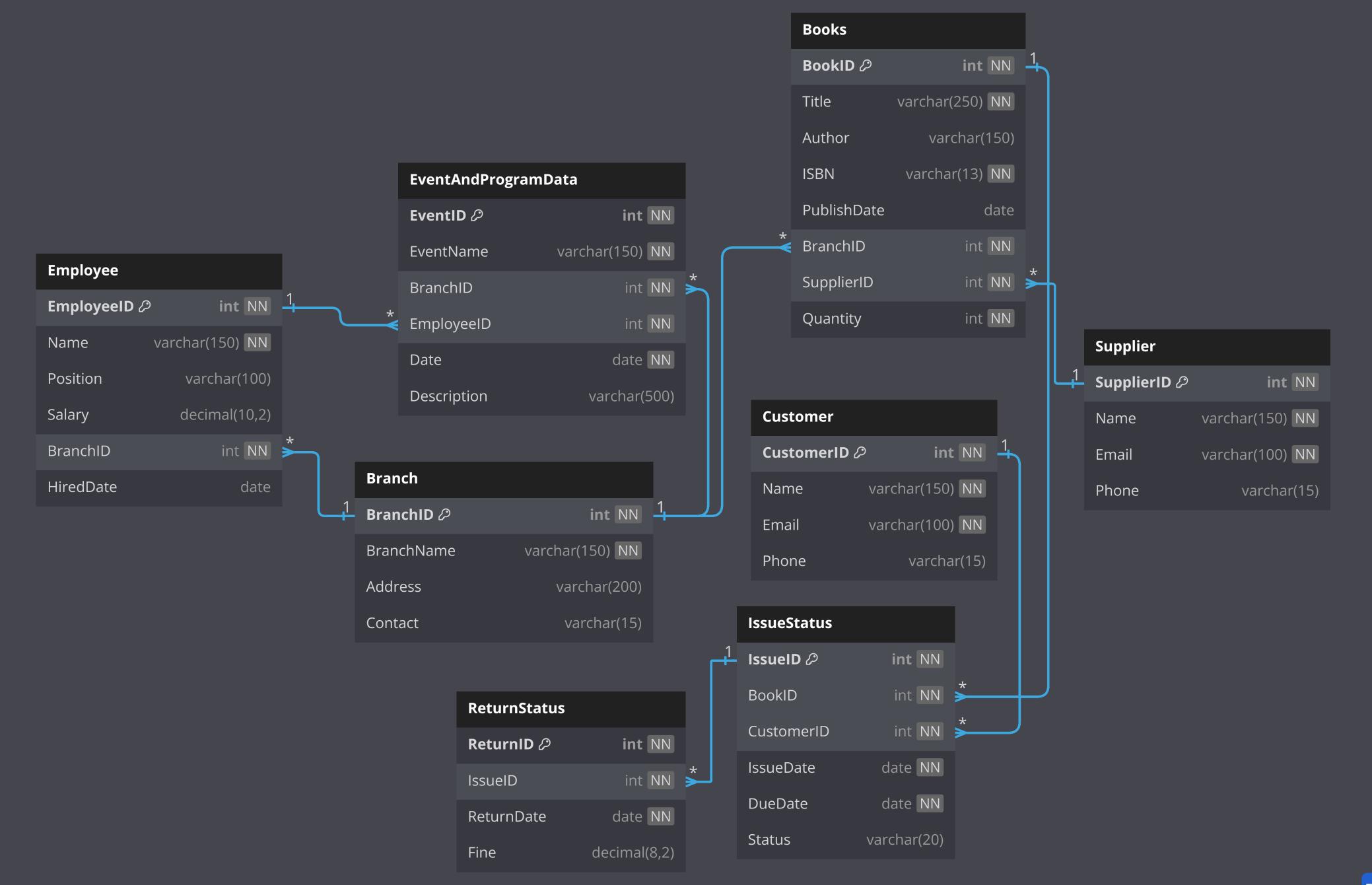
Field	Data Type
RETURN ID	INT (PRIMARY)
ISSUE ID	INT(FOREIGN)
RETURN DATE	DATE
FINE	DECIMAL

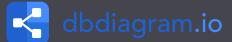
EVENT AND PROGRAM DATA

Field Data Type INT (Primary) EVENT ID **EVENT Name** VARCHAR (200) **BRANCH ID** INT(FOREIGN) DATE DATE **DESCRIPTION** VARCHAR

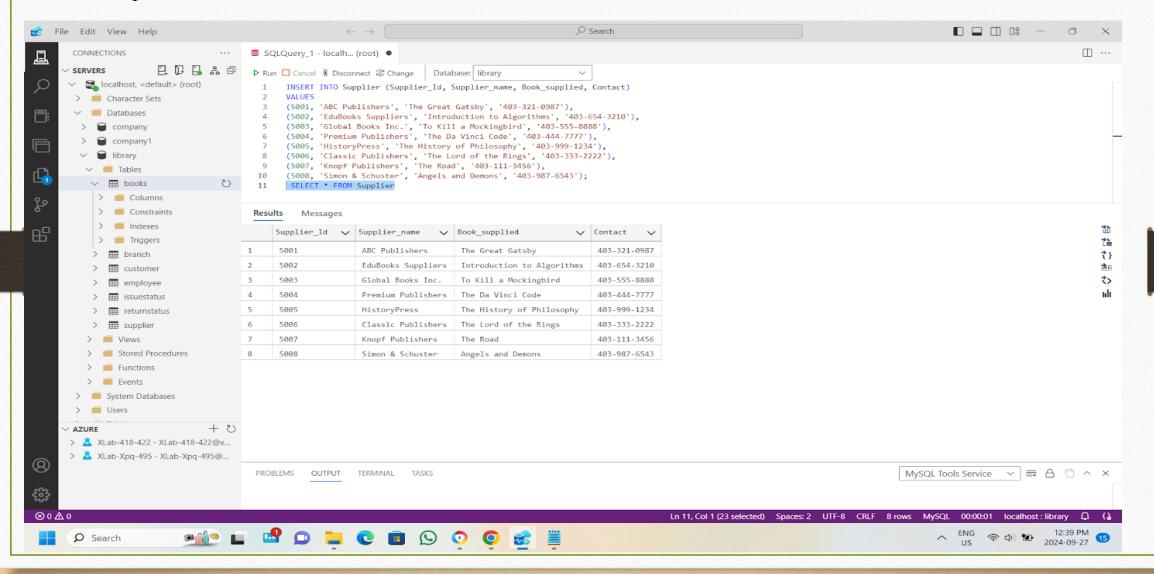
SUPPLIER

Field	Data Type
SUPPLIER id	INT (PRIMARY)
Name	VARCHAR (200)
email	VARCHAR (100)
phone	VARCHAR (20)





For example;-



Conclusion

The proposed structure of databases for the Central Library of Calgary is intended to enhance library operations, user experience, and resource management efficiency.

Overall, this database serves as the foundation for the library's aim of delivering accessible, structured, and efficient services to its users while being adaptive to future requirements and advancements in technology.

Contribution

Lucky Patel: Focused on reviced ER diagram and relationships

Jashanpreet: Contribute in table structure and data type

Harleen Kaur: Focused on mission statement and objectives

Chandrashekhar: Focused on database and Its correlation as well



Developing the skill to provide constructive feedback is essential, and it's a distinct ability that needs nurturing. Participate actively in group discussions and provide valuable feedback on the presentations. Remember to assess your own performance in comparison to other groups at the end.

Criteria: Beginning [0-3]; Developing [4-6]; Accomplished [7-9]; Excellent [10] Relationships Relevance Content and Table/entity of the **Database** clarity, Group **Total Score** associations organization identification Your written constructive feedback on the presenting group attribute to diagram and their [50] Number and Delivery [0-10] the table [0-10] [0degree [0-10] [0-10] 10] 45 Excellent presentation, full clerity and good explaination G-1 9 9 91 Presentation was well delivered and addressed 70% of the instructor's G-2 8 8 question. G-3 41 Good presentation, clear explaination, relevent to the point 8 8 8 8 8 36 All good but ER diagram is not clear. G-4 7 6 37 ER diagram was not connected to its entities properly, Presentation went good. G-5 8 9 8 8 8 9 9 42 Good topic with very well explaination. **G-6**