

BOOKSTORE MANAGEMENT

PROBLEM STATEMENT

Bookstore is place where people can buy books. There are several bookstores so the competition among various book store organization is high. I am planning to create a database system to manage a book store organization. This project can be used by a bookstore organization to keep track of their customers, employees, books and stores, sales, revenue and billing information. This system is helpful in managing several stores of the organization present in several locations and also their inventory details.

Data Requirements

1.Customer

Each store has several customers who purchase books. The data captured about the customer are:

- **Personal details:** First name, last name, date of birth, gender, age, email, phone number
- **Type of customer:** Office, Individual, school, college etc

2.Employee

Each store can have any number of employees, but the employee of one store cannot be the employee of another store. One employee can manage a store. The data captured about the employee are:

- **Personal details:** First name, last name, date of birth, gender, age, email, phone number
- **Joining date:** The date at which the employee started working with the store
- **Salary:** The employees' monthly salary
- **Average working hours:** How many hours will a employee work per day?
- **Type:** Permanent or Temporary
- **Position:** Manager, Sales Person, Sales Executive

3. Books

Each store can have several books and also copies of the same books but with different book id's.

- **Book ID:** Unique ID provided to each copy of a book
- **ISBN:** 13-digit number that uniquely identifies the book
- **Name of the Book**
- **Edition**
- **Number of Pages**
- **Genre:** Fiction, Non-Fiction, Magazine, Academics, Comedy, Horror
- **Author Name**
- **Publisher Name**
- **Price**
- **Numbers Sold**

4. Stores

Stores are places where books are sold. There are several bookstores across the country. The information captured about the store is:

- **Store ID:** Unique ID provided to each shop across the country
- **Name:** Name Of the store
- **Location:** Address of the store
- **Rent:** Monthly rent of the store
- **Phone Number:** Phone number of the store
- **Date Of Starting:** Date the store was opened

5. Billing

Contains the billing information of the customer i.e. the purchase details of the customer.

- **Item Id, Supplier Id, Store Id, Name and quantity**
- **Date of Sales**
- **Employer information** – Sales person who took care of the billing
- **Customer information** – Customer who made the purchase
- **Sales Sub total**
- **Tax**
- **Billing Total**

- **Mode of payment**
- **Credit Card information (if payed through card)**

6. Returns

Returns are valid only for 2 days from the date of purchase.

- **Book Id:** Unique ID that identifies each copy of the book
- **Quantity**
- **Billing Id**
- **Reason for returning**
- **Returns total**
- **Returns Tax**
- **Total Amount Returned to the customer**

7. Warehouse

Each store has a warehouse for storing the excess stock of books and using those stocks when the store is out of books. The book stock should be refilled if the book count comes below 200. The number of pieces that can be refilled should be 1000. The data captured in the warehouse is:

- **Book ID**
- **ISBN**
- **Name Of the Book**
- **Number Of Copies Available**
- **Author Name**
- **Type:** Paperback/Hardbound
- **Stock Status:** Low/Medium/High(In numbers)

8. Supplier

Supplier supplies books to the store. Each book store can have many suppliers. The details that are captured about the supplier are:

- **Supplier Information** - Supplier from which the item is purchased: - ID, Name, Phone, Address, Email Id
- **Cost price**
- **Last Purchased Date**

- **Last Purchased Quantity**
- **Store Id**

REQUIREMENTS

1. **Daily Report** – Contains the information about number of books sold, total profit/loss and the total revenue for the day.
2. **Monthly Stat Report** – This report shows the total amount of money spent, Overall monthly net balance, Budget for next month, Total amount of tax collected, total revenue, total budget for next month.
3. **Sales Tax Report** – This report helps to calculate the total sales tax received and how much to pay to the tax agencies.
4. **Employee Report** – This report shows the services provided by each employee with respect to working hours.
5. **Sales by product Report** – This report shows the selling of each book in the store which includes the quantity, percentage of total sales and average price.
6. **Supplier Report** – Lists the total transactions with each supplier to identify the best supplier.
7. **Profit and Loss Report** – Shows the total money spent and the total revenue and determines the profit and loss.
8. **Supplier Balance report** – This report shows the amount owed to each supplier.
9. **Store Report** – This report shows the sales in each of the store and helps to decide to invest in which store.
10. **Stock Status** – This report shows the status of book stock in the warehouse at the end of the month.
11. **Returns Report** – This report shows the revenue loss due to the return of books.
12. **Top and bottom report**- A report showing top 5 selling books and bottom 5 selling books with their details.

- 13.Customer report-** A report showing the customers with high frequency of purchases in a particular store.
- 14.**A report showing the supplier in each store whose books were returned a maximum number of time which helps in scrutinizing the suppliers of a store.