**7A Library** SA47 Paper 2 Course Assignment by Team 7A

**Library layout, Member Category and Report Access**

On each of the 3 floors, there are 6 book cases. Each book case has 3 shelves. Location ID is generated by (Floor, BookCase, Shelf). A book on top shelf in Bookcase 5 at Level 3 has Location ID of 3051.

Members are split into 3 tiers: Gold, Silver, Regular.

|  |  |  |
| --- | --- | --- |
| **Tier (Category Name)** | **Books borrowed to reach this tier** | **Borrowing limit each time**  **(No. of books)** |
| Regular | Not required | 4 |
| Silver | 100 | 7 |
| Gold | 200 | 10 |

The version of viewing main menu in report tab is different based on staff designation.

|  |  |
| --- | --- |
| **Staff designation** | **Access to reports** |
| ‘Manager’ and ‘Admin’ | All |
| Chief Librarian | can’t view management report |
| ‘Librarian’ | can’t view management report and member list |

This system provides for maintenance of books and members, query for books-related information, transaction for borrow and return, as well as generating of simple, crosstab and charts reports.

**Interesting Features to try out**

**Book Maintenance: (**BookID: 5)

**Member Maintenance:** MemberID: 2)

**Book Search (or Query Search):**

**Borrowing Books**

* Showing Normal Borrow Process (MemberID: 1)
* Showing Upgrading Member Category for member (Member ID: 2)
* Showing Book is Out of Stock (Member ID: 3)
* Showing cannot borrow over borrow limit (based on category) (Member ID: 4)

**Return Books** (Member ID:1)

**Book Record Query – Search for an unavailable book** (BookID: 5)

**Report**

Total 8 types of reports: 1 in Borrow Book tab and 1 in Return Book tab, 6 in report tab.

* Borrow Book tab: Borrow Receipt
* Return Book tab: Return Receipt

**Reports tabs**

|  |  |  |
| --- | --- | --- |
| Report name | Additional notes (if any) | Report Types |
| Book list |  | Simple |
| Member list | In screen design, can also choose a member category. | Simple |
| Group by member category |  | Simple & chart reporting |
| List of Books (currently on loan) |  | Simple |
| Member Record | Shows books ever borrowed, including not yet returned. Key “45” in MemberID | Transaction |
| Management report | No. of times each book borrowed  No. of members by Member Category  Total no. of times books borrowed by  Member Category  No. of books currently borrowed by Member Category | Crosstab reporting |

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