**Database Project CSE 3104**

**Group No: 02**

**ID:16-01-04-109**

**ID:16-01-04-110**

**Project Report**

**Project Name: Library Management System**

**1.Project Objective:**

a) To build a system that can receive input and generate automatically output in easy way and short time.

b) To build a monitoring system that is able to monitor and manage all library operations efficiently.

c) Give an opportunity to librarians to reduce mistakes that always happen during manual method.

d) To store properly the library items in order to maintain their security.

e) To enter and preserve details of the various issues and keep a track on their returns.

**2. Features of the project:**

1. Show the user id, username & password of admin panel.
2. Show the names of admin.
3. Show the usernames of admin.
4. Show the username which name starts with A.
5. Show the name which starts with G.
6. Show the id & first name of admins.
7. List only the name of first three admins.
8. Display the last name in descending order.
9. Find the username & email which is kept track by the admin whose name is Imon.
10. Find the user id & password which is kept track by the

admin whose name start with I or A.

1. Find the username & password which is kept track by the admin whose name start with I and ends with N.
2. Show the username, email, user id, password of all users.

13. Show the full name of admins.

14. Find the category of books.

15. Find the total price of story books.

16. Find the title of the books which author name is Humayun Ahmed.

17. Find the serial no of book which title is “Harry Potter”.

18. Show the list of ISBN of books.

19. Find the title of books which price is less than or equal to Tk. 200.

20. Show the all Science fiction related books.

21. Display the most expensive books.

22. Find the author name of books whose name starts with S and ends with N.

23. List only the first four title of books.

24. Show the username who issue the books in 26 September 2018.

25. Find the username who return the books in 10 October 2018 and which price is more than Tk. 150.

26. Find the username who issue the books today. (Suppose, today’s date is 09-29-2018)

27. Find the username who reserved the story book yesterday. (Suppose, yesterday is 03-15-2018)

28. Find the username who reserved the book which price is Tk. 400 and author name is Istein.

29. Find the username who have reserved the book in 28 September 2018.

30. List out the books name whose author name is M. Moris.

31. Find the price of book which title is “**DARKNESS AT NOON**”.

32. Show the list of periodicals of 2018.

33. Find the title and publication date of periodicals in 14 September 2018.

34. Find the name of periodicals which published in 2017.

35.Find the username who have reserved the books in 15 August 2018 and returns in 28 September 2018.

36.Find the publisher name and publication date of books whose name is Harvard.

37.Find the publisher name of books whose author name starts with S.

38. Find the name of publisher whose book price is less than or equal to Tk. 250.

39. Find the name of publisher who publishes story related book.

40. Find the username who reserved the book in 15 October 2018 and which publisher’s name is David.

41. Find the publisher name who printed periodicals in 27 March 2018.

42. Find the publisher name who print a periodical which title is The New York Times.

43. Find the publisher whose name starts with I and ends with k and whose publisher id equal to 06.

44. Display the average cost of book price.

45. Show the list of ISBN and title of books.

46. Display the cheapest books.

47. Find the author of book which title is “Harry Potter or the

Deathly Hallows.”

48. Find the username who issue the books which price is

more than Tk. 450.

49. Find the username who issued the science fiction in 15

August 2018.

50. List out the books name whose author name is M. Moris.

51. Show the email id who issue the books in 26 September

2018.

52. Find the username and password who issued the book

yesterday and whose password is 12345. (Suppose, yesterday is

09-26-2018)

53. Find the All Number of books”.

54. Find the Publisher name of periodical which title is “WIRED”.

55. Show all categories in lower case.

56. Find the Publisher name in upper case whose publication

date is 26 September 2018.

57. Find the length of title of periodicals which name is The

New York Times.

58. Show the 50% of books.

59. Find all the books which price is between Tk. 150 to Tk. 800.

60. Show the all attribute of periodicals.

**3.** **Types of Users:**

1. **Admin:**

The library management system has been maintained in a synchronized way by admin. The admins are keeping tracks of different type of users, their books, periodicals transaction & state of books and periodicals in the library. They have managed the authentication part by logging in with their User\_id, User\_name & password. They have also first name, last name & id.

1. **Private & Normal users:**

The users are recognized by their id, User\_name, Email-id, Password. They can easily issue a book, reserve it and return it. But there is a specification in this process. In this case, there are two types of users, Normal user & private user. The normal user can only issue a book containing an issue-date, but they can never reserve it. On the other hand, the private user can easily access all the facilities like issue the book with issue date, reserve it with a reserve date & they can also return it with a return date.

**4. Feature grouping according to the Users:**

**Admin Panel:**

1. Show the user id, username & password of admin panel.
2. Show the names of admin.
3. Show the usernames of admin.
4. Show the username which name starts with A.
5. Show the name which starts with G.
6. Show the id & first name of admins.
7. List only the name of first three admins.
8. Display the last name in descending order.
9. Find the username & email which is kept track by the admin whose name is Imon.
10. Find the user id & password which is kept track by the

admin whose name start with I or A.

1. Find the username & password which is kept track by the admin whose name start with I and ends with N.
2. Show the username, email, user id, password of all users.

13. Show the full name of admins.

**Private users**:

1. Find the category of books.
2. Find the total price of story books.
3. Find the title of the books which author name is Humayun Ahmed.
4. Find the serial no of book which title is “Harry Potter”.
5. Show the list of ISBN of books.
6. Find the title of books which price is less than or equal to Tk. 200.
7. Show the all Science fiction related books.
8. Display the most expensive books.
9. Find the author name of books whose name starts with S and ends with N.
10. List only the first four title of books.
11. Show the username who issue the books in 26 September 2018.
12. Find the username who return the books in 10 October 2018 and which price is more than Tk.150.
13. Find the username who issue the books today. (Suppose, today’s date is 09-29-2018)
14. Find the username who reserved the story book yesterday. (Suppose, yesterday is 03-15-2018)
15. Find the username who reserved the book which price is Tk. 400 and author name is Istein.
16. Find the username who have reserved the book in 28 September 2018.
17. List out the books name whose author name is M. Moris.
18. Find the price of book which title is “**DARKNESS AT NOON**”.
19. Show the list of periodicals of 2018.
20. Find the title and publication date of periodicals in 14 September 2018.
21. Find the name of periodicals which published in 2017.
22. Find the username who have reserved the books in 15 August 2018 and returns in 28 September 2018.
23. Find the publisher name and publication date of books whose name is Harvard.
24. Find the publisher name of books whose author name starts with S.
25. Find the name of publisher whose book price is less than or equal to Tk. 250.
26. Find the name of publisher who publishes story related book.
27. Find the username who reserved the book in 15 October 2018 and which publisher’s name is David.
28. Find the publisher name who printed periodicals in 27 March 2018.
29. Find the publisher name who print a periodical which title is The New York Times.
30. Find the publisher whose name starts with I and ends with k and whose publisher id equal to 06.
31. Display the average cost of book price.

**Normal Users**:

1. Show the list of ISBN and title of books.
2. Display the cheapest books.
3. Find the author of book which title is “Harry Potter or the Deathly Hallows.”
4. Find the username who issue the books which price is more

than Tk. 450.

1. Find the username who issued the science fiction in 15 August 2018.
2. List out the books name whose author name is M. Moris.
3. Show the email id who issue the books in 26 September 2018.
4. Find the username and password who issued the book yesterday and whose password is 12345. (Suppose, yesterday is

09-26-2018)

1. Find the All Number of books”.

10. Find the Publisher name of periodical which title is “WIRED”.

11. Show all categories in lower case.

12. Find the Publisher name in upper case whose publication date

is 26 September 2018.

13. Find the length of title of periodicals which name is The New

York Times.

14.Show the 50% of books.

15. Find all the books which price is between Tk. 150 to Tk. 800.

16. Show the all attribute of periodicals.

**5. Names of the Entities with primary key:**

|  |  |
| --- | --- |
| Entity Set | Primary Key |
| AUTHENTICATION\_SYSTEM | U\_ID |
| ADMIN\_PANEL | ID |
| USERS | USERS\_ID |
| PUBLISHER | PU\_ID |
| BOOKS | SI\_NO |
| PERIODICALS | P\_ID |

**6.ER Diagram:**

****

**7.** **Relational Model:**

CREATE TABLE AUTHENTICATION\_SYSTEM(

U\_ID INTEGER,

A\_NAME VARCHAR(30),

U\_NAME VARCHAR(30),

PASSWORD VARCHAR(11),

PRIMARY KEY (U\_ID)

);

CREATE TABLE ADMIN\_PANEL(

ID INTEGER,

NAME VARCHAR(30),

PRIMARY KEY (ID)

);

CREATE TABLE LOGGED\_BY (

U\_ID INTEGER,

ID char(20) NOT NULL,

PRIMARY KEY (ID),

FOREIGN KEY (U\_ID) REFERENCES AUTHENTICATION\_SYSTEM,

FOREIGN KEY (ID) REFERENCES AUTHENTICATION\_SYSTEM

);

CREATE TABLE USERS (

USERS\_ID INTEGER,

USERS\_NAME VARCHAR(30),

EMAIL VARCHAR(30),

USER\_PASSWORD VARCHAR(30),

PRIMARY KEY (USERS\_ID)

);

CREATE TABLE KEEP\_TRACK (

ID INTEGER,

USERS\_ID INTEGER,

PRIMARY KEY (ID,USERS\_ID),

FOREIGN KEY (ID) REFERENCES ADMIN\_PANEL,

FOREIGN KEY (USERS\_ID) REFERENCES USERS

);

CREATE TABLE BOOKS (

SI\_NO INTEGER,

ISBN VARCHAR(40),

CATEGORY VARCHAR(30),

PRICE INTEGER,

AUTHOR VARCHAR(20),

TITLE VARCHAR(30),

RESERVATION\_DATE DATE,

ISSUE\_DATE DATE,

RETURN\_DATE DATE,

USERS\_ID INTEGER,

PRIMARY KEY(SI\_NO),

FOREIGN KEY (USERS\_ID) REFERENCES USERS,

UNIQUE (USERS\_ID)

);

CREATE TABLE PERIODICALS (

P\_ID INTEGER,

P\_TITLE VARCHAR(30),

P\_YEAR VARCHAR(20),

RESERVATION\_DATE DATE,

ISSUE\_DATE DATE,

RETURN\_DATE DATE,

USERS\_ID INTEGER,

PRIMARY KEY(P\_ID),

FOREIGN KEY (USERS\_ID) REFERENCES USERS,

UNIQUE (USERS\_ID)

);

CREATE TABLE PUBLISHER (

PU\_ID INTEGER,

PU\_NAME VARCHAR(20),

PUBLICATION\_DATE DATE,

PRIMARY KEY(PU\_ID)

);

CREATE TABLE PUBLISH (

SI\_NO INTEGER,

PU\_ID INTEGER,

PRIMARY KEY(SI\_NO),

FOREIGN KEY (PU\_ID) REFERENCES PUBLISHER,

FOREIGN KEY (SI\_NO) REFERENCES BOOKS

);

CREATE TABLE PRINTI (

P\_ID INTEGER,

PU\_ID INTEGER,

PRIMARY KEY(P\_ID),

FOREIGN KEY (PU\_ID) REFERENCES PUBLISHER,

FOREIGN KEY (P\_ID) REFERENCES PERIODICALS

);

**8.** **Database Diagram:**

****

**9.** **SQL Queries Grouped Under Different Types Of Users:**

CREATE TABLE AUTHENTICATION\_SYSTEM(

U\_ID INT IDENTITY(1,1) PRIMARY KEY,

A\_NAME VARCHAR(30) NOT NULL,

U\_NAME VARCHAR(30),

PASSWORD VARCHAR(20),

)

INSERT INTO AUTHENTICATION\_SYSTEM (A\_NAME, U\_NAME, PASSWORD)

VALUES ('STEIN','ST-1','12345'),

('MERRY','ST-2','123456'),

('DAVID','ST-3','1234567'),

('ALLIS','ST-4','12345678'),

('ARAY','ST-5','123456789'),

('GAL GADOT','ST-6','123456780'),

('IMON AHMED','ST-7','1234567810')

CREATE TABLE ADMIN\_PANEL(

ID INT IDENTITY(1,1) PRIMARY KEY,

U\_ID INT NOT NULL FOREIGN KEY REFERENCES AUTHENTICATION\_SYSTEM (U\_ID),

FIRST\_NAME VARCHAR(30),

LAST\_NAME VARCHAR(30),

)

INSERT INTO ADMIN\_PANEL (U\_ID,FIRST\_NAME, LAST\_NAME)

VALUES (001,'STEIN','ORKAIN'),

(002,'MERRY','INN'),

(003,'DAVID','ERKHAM'),

(004,'ALLIS','SALVATION'),

(005,'ARAY','ROITER'),

(006,'GAL','GADOT'),

(007,'IMON','AHMED')

CREATE TABLE USERS (

USERS\_ID INT IDENTITY(1,1) PRIMARY KEY,

ID INT NOT NULL FOREIGN KEY REFERENCES ADMIN\_PANEL (ID),

USERS\_NAME VARCHAR(30) NOT NULL,

EMAIL VARCHAR(50) NOT NULL,

USER\_PASSWORD VARCHAR(30) NOT NULL,

)

INSERT INTO USERS (ID,USERS\_NAME, EMAIL,USER\_PASSWORD)

VALUES (001,'STEIN','junaed.uddin460@gmail.com','1234'),

(002,'MERRY','imon.boss460@gmail.com','12345'),

(003,'DAVID','anika.uddin460@gmail.com','12346'),

(004,'ALLIS','jahid.uddin460@gmail.com','12347'),

(005,'ARAY','junaed.uddin460@gmail.com','12344'),

(006,'GAL','junaina.uddin460@gmail.com','12342'),

(007,'IMON','selena.uddin460@gmail.com','123469')

CREATE TABLE BOOKS (

SI\_NO INT IDENTITY(1,1) PRIMARY KEY,

USERS\_ID INT NOT NULL FOREIGN KEY REFERENCES USERS(USERS\_ID),

ISBN VARCHAR(40),

CATEGORY VARCHAR(30) NOT NULL,

PRICE INTEGER,

AUTHOR VARCHAR(20) NOT NULL,

TITLE VARCHAR(30) NOT NULL,

ISSUE\_DATE DATE NOT NULL,

RESERVATION\_DATE DATE NOT NULL,

RETURN\_DATE DATE NOT NULL,

)

INSERT INTO BOOKS (USERS\_ID,ISBN, CATEGORY,PRICE,AUTHOR,TITLE,ISSUE\_DATE,RESERVATION\_DATE,RETURN\_DATE)

VALUES (001,'4212-2536-452139','STORY',1000,'HUMAYUN AHMED','MOYURAKKHI','09-26-2018','08-15-2018','09-28-2018'),

(002,'8912-2536-678139','SCIENCE FICTION',700,'M.MORIS','DEATHLY HALLOWS','09-28-2018','09-28-2018','10-20-2018'),

(003,'5672-2536-452139','THRILLER',400,'ISTEIN','HARRY POTTER','12-29-2018','01-15-2018','08-20-2018'),

(004,'6782-2536-452139','SCIENCE FICTION',250,'M.MORIS','MICROPROCESSOR','08-15-2018','10-15-2018','08-20-2018'),

(005,'2342-2536-452139','STORY',200,'HUMAYUN AHMED','OPEKKHA','08-15-2018','12-28-2018','08-20-2018'),

(006,'7612-2536-452139','STORY',150,'STEIN','DARKNESS AT NOON','08-15-2018','03-15-2018','12-28-2018'),

(007,'3662-2536-452139','THRILLER',100,'HUMAYUN AHMED','HIMU','09-29-2018','02-15-2018','08-20-2018')

CREATE TABLE PERIODICALS (

P\_ID INT IDENTITY(1,1) PRIMARY KEY,

USERS\_ID INT NOT NULL FOREIGN KEY REFERENCES USERS(USERS\_ID),

P\_TITLE VARCHAR(30) NOT NULL,

P\_YEAR VARCHAR(20) NOT NULL,

RESERVATION\_DATE DATE NOT NULL,

ISSUE\_DATE DATE NOT NULL,

RETURN\_DATE DATE NOT NULL,

)

INSERT INTO PERIODICALS (USERS\_ID,P\_TITLE, P\_YEAR,ISSUE\_DATE,RESERVATION\_DATE,RETURN\_DATE)

VALUES (001,'The New York Times','2018','09-26-2018','08-15-2018','09-29-2018'),

(002,'Library Journal','2018','09-26-2018','09-15-2018','09-30-2018'),

(003,'Wired','2017','09-26-2018','08-15-2018','09-28-2018'),

(004,'Punk Planet','2017','09-26-2018','08-15-2018','09-28-2018'),

(005,'NME','2015','09-26-2018','08-15-2018','09-28-2018'),

(006,'Library Journal','2016','09-26-2018','08-25-2018','09-28-2018'),

(007,'The New York','2014','09-26-2018','08-19-2018','09-28-2018')

CREATE TABLE PUBLISHER (

PU\_ID INT IDENTITY(1,1) PRIMARY KEY,

SI\_NO INT NOT NULL FOREIGN KEY REFERENCES BOOKS(SI\_NO),

P\_ID INT NOT NULL FOREIGN KEY REFERENCES PERIODICALS(P\_ID),

PU\_NAME VARCHAR(20) NOT NULL,

PUBLICATION\_DATE DATE NOT NULL,

)

INSERT INTO PUBLISHER (SI\_NO,P\_ID,PU\_NAME,PUBLICATION\_DATE)

VALUES (001,001,'HARVARD','03-27-2018'),

(002,002,'STERN','09-14-2018'),

(003,003,'brocott','09-26-2018'),

(004,004,'katrina','09-26-2018'),

(005,005,'HARVARD','09-18-2018'),

(006,006,'ISTIAK','03-27-2018'),

(007,007,'DAVID','03-27-2018')

-->--**SQL QUERY**

-->**ADMINS**

-->1.

SELECT \* FROM AUTHENTICATION\_SYSTEM

-->2.

SELECT A\_NAME FROM AUTHENTICATION\_SYSTEM

-->3.

SELECT U\_NAME FROM AUTHENTICATION\_SYSTEM

-->4.

SELECT U\_NAME,A\_NAME FROM AUTHENTICATION\_SYSTEM WHERE A\_NAME LIKE 'A%'

-->5.

SELECT A\_NAME FROM AUTHENTICATION\_SYSTEM WHERE A\_NAME LIKE 'I%'

-->6.

SELECT FIRST\_NAME FROM ADMIN\_PANEL

-->7.

SELECT TOP 3 FIRST\_NAME,LAST\_NAME FROM ADMIN\_PANEL

-->8.

SELECT LAST\_NAME FROM ADMIN\_PANEL ORDER BY LAST\_NAME DESC

-->9.

SELECT FIRST\_NAME,LAST\_NAME,USERS\_NAME,EMAIL FROM ADMIN\_PANEL,USERS WHERE FIRST\_NAME LIKE 'I%'

-->10.

SELECT FIRST\_NAME,USERS\_ID,EMAIL FROM ADMIN\_PANEL,USERS WHERE FIRST\_NAME LIKE 'I%'OR FIRST\_NAME LIKE 'A%'

-->11.

SELECT FIRST\_NAME,USERS\_ID,EMAIL FROM ADMIN\_PANEL,USERS WHERE FIRST\_NAME LIKE 'I%N'

-->12.

SELECT \* FROM USERS

-->13.

SELECT FIRST\_NAME + ' ' + LAST\_NAME AS 'FULL NAME' FROM ADMIN\_PANEL

**-->PRIVATE USERS**

-->1.

SELECT CATEGORY FROM BOOKS

-->2.

SELECT CATEGORY, SUM(PRICE) AS 'TOTAL PRICE' FROM BOOKS GROUP BY CATEGORY HAVING CATEGORY ='STORY'

-->3.

SELECT TITLE FROM BOOKS WHERE AUTHOR ='HUMAYUN AHMED'

-->4.

SELECT SI\_NO FROM BOOKS WHERE TITLE ='HARRY POTTER'

-->5.

SELECT ISBN FROM BOOKS

-->6.

SELECT TITLE FROM BOOKS WHERE PRICE <= 250

-->7.

SELECT \* FROM BOOKS WHERE CATEGORY ='SCIENCE FICTION'

-->8.

SELECT TITLE,PRICE AS MAXIMUM\_PRICE

FROM BOOKS WHERE PRICE = (SELECT MAX(PRICE) FROM BOOKS)

-->9.

SELECT \* FROM BOOKS WHERE AUTHOR LIKE 'S%N'

-->10.

SELECT TOP 4 TITLE FROM BOOKS

-->11.

SELECT USERS\_NAME,ISSUE\_DATE FROM USERS,BOOKS WHERE ISSUE\_DATE ='09-26-2018'

-->12.

SELECT USERS\_NAME, PRICE ,RETURN\_DATE FROM USERS,BOOKS WHERE PRICE >= 150 AND RETURN\_DATE = '10-20-2018'

-->13.

SELECT USERS\_NAME,ISSUE\_DATE FROM USERS,BOOKS WHERE ISSUE\_DATE ='09-29-2018'

-->14.

SELECT USERS\_NAME,CATEGORY, RESERVATION\_DATE FROM USERS,BOOKS WHERE CATEGORY = 'STORY' AND RESERVATION\_DATE ='03-15-2018'

-->15.

SELECT USERS\_NAME,PRICE,RESERVATION\_DATE FROM USERS,BOOKS WHERE PRICE = 400 AND AUTHOR ='ISTEIN'

-->16.

SELECT USERS\_NAME,RESERVATION\_DATE FROM USERS,BOOKS WHERE RESERVATION\_DATE ='09-28-2018'

-->17.

SELECT AUTHOR,TITLE FROM BOOKS WHERE AUTHOR ='M.MORIS'

-->18.

SELECT TITLE, PRICE FROM BOOKS WHERE TITLE ='DARKNESS AT NOON'

-->19.

SELECT P\_TITLE,P\_YEAR FROM PERIODICALS WHERE P\_YEAR = '2018'

-->20.

SELECT P\_TITLE,PUBLICATION\_DATE FROM PERIODICALS,PUBLISHER WHERE PUBLICATION\_DATE = '09-14-2018'

-->21.

SELECT P\_TITLE FROM PERIODICALS WHERE P\_YEAR = '2017'

-->22.

SELECT USERS\_NAME,RESERVATION\_DATE,RETURN\_DATE FROM USERS,BOOKS WHERE RESERVATION\_DATE = '08-15-2018' AND RETURN\_DATE = '09-28-2018'

-->23.

SELECT PU\_NAME,PUBLICATION\_DATE FROM PUBLISHER WHERE PU\_NAME = 'HARVARD'

-->24.

SELECT PU\_NAME,AUTHOR FROM PUBLISHER,BOOKS WHERE AUTHOR LIKE 'S%'

-->25.

SELECT PU\_NAME,PRICE FROM PUBLISHER,BOOKS WHERE PRICE <= 250

-->26.

SELECT PU\_NAME,CATEGORY FROM PUBLISHER,BOOKS WHERE CATEGORY = 'STORY' AND ISSUE\_DATE = '09-26-2018'

-->27.

SELECT USERS\_NAME,RESERVATION\_DATE,PU\_NAME FROM USERS,BOOKS,PUBLISHER WHERE PU\_NAME = 'DAVID' AND RESERVATION\_DATE = '10-15-2018'

-->28.

SELECT PU\_NAME,PUBLICATION\_DATE FROM PUBLISHER WHERE PUBLICATION\_DATE = '03-27-2018'

-->29.

SELECT PU\_NAME,P\_TITLE FROM PUBLISHER, PERIODICALS WHERE P\_TITLE = 'The New York Times'

-->30.

SELECT PU\_NAME,PU\_ID FROM PUBLISHER WHERE PU\_NAME LIKE 'I%K' AND PU\_ID = 6

-->31.

SELECT PRICE AS AVERAGE\_PRICE FROM BOOKS WHERE PRICE = (SELECT AVG(PRICE) FROM BOOKS)

-->**NORMAL USER**

-->1.

SELECT ISBN,TITLE FROM BOOKS

-->2.

SELECT TITLE,PRICE AS MINIMUM\_PRICE FROM BOOKS

WHERE PRICE = (SELECT MIN(PRICE) FROM BOOKS)

-->3.

SELECT AUTHOR,TITLE FROM BOOKS WHERE TITLE = 'HARRY POTTER' OR TITLE = 'DEATHLY HALLOWS'

-->4.

SELECT USERS\_NAME,ISSUE\_DATE,PRICE FROM USERS,BOOKS WHERE PRICE >= 450

-->5.

SELECT USERS\_NAME,CATEGORY,ISSUE\_DATE FROM USERS,BOOKS WHERE CATEGORY = 'SCIENCE FICTION' AND ISSUE\_DATE ='08-15-2018'

-->6.

SELECT TITLE, AUTHOR FROM BOOKS WHERE AUTHOR = 'M.MORIS'

-->7.

SELECT EMAIL,ISSUE\_DATE FROM USERS,BOOKS WHERE ISSUE\_DATE = '09-26-2018'

-->8.

SELECT USERS\_NAME,USER\_PASSWORD,ISSUE\_DATE FROM USERS,BOOKS WHERE USER\_PASSWORD ='12345' AND ISSUE\_DATE = '09-26-2018'

-->9.

SELECT TITLE,COUNT(DISTINCT SI\_NO) AS 'TOTAL NUMBER' FROM BOOKS GROUP BY TITLE

-->10.

SELECT PU\_NAME,P\_TITLE FROM PUBLISHER,PERIODICALS WHERE P\_TITLE = 'WIRED'

-->11.

SELECT LOWER(CATEGORY) AS 'FULL CATEGORY' FROM BOOKS

-->12.

SELECT UPPER(PU\_NAME),PUBLICATION\_DATE FROM PUBLISHER WHERE PUBLICATION\_DATE = '09-26-2018'

-->13.

SELECT LEN(P\_TITLE)AS 'LENGTH' FROM PERIODICALS WHERE P\_TITLE = 'The New York Times'

-->14.

SELECT TOP 50 PERCENT \* FROM BOOKS

-->15.

SELECT \* FROM BOOKS WHERE PRICE BETWEEN 150 AND 800

-->16.

SELECT \* FROM PERIODICALS

1. **Project Limitations:**

* System is not for online.
* The system does not produce library card.
* This system requires knowledgeable person to use this

system.

* User can not issue more than one book.
* Same user name can be existed.

1. **Conclusion & Future Work:**

**Scope:**

* The system can generate users registration and books registration.
* Can update, delete, add.
* Any educational institute can make use of it for providing information about author, publishers, admins, the contents of books & periodicals.
* Modifications can be easily done according to requirements as and when necessary.
* Our system can be updated to online management system.

**Conclusion:**

* Optimum utilization of resources.
* Efficient management of records.
* Simplification of operation.
* Less processing time and getting required information.
* User friendly.
* Portable and flexible for further enhancement.