6. Test Queries (Minimum 25 Queries)

1. Display the student name who issued the book "mathematics" type.

2. Display the Issue ID, Student Name whose issued the book with isbn book number as 1003.

```
mysql> SELECT C.Issue_ID,A.student_Name
          -> FROM student A, issue_status C
          -> where A.student_ID=C.StudentID
          -> and C.isbn_book=1003;
+-----+
| Issue_ID | student_Name |
+-----+
| 1314 | Aditya Kumar |
+-----+
1 row in set (0.02 sec)
```

3. Display the name, student id and date of return of student who have returned the issued book.

```
mysql> SELECT A.student_Name, A.student_ID, C.Return_date
    -> FROM student A, return_status C
    -> where A.student_ID=C.Return_StudentID;
+-----+
| student_Name | student_ID | Return_date |
+-----+
| Aditya Kumar | 2108 | 2020-07-15 12:05:20 |
| Isha tyagi | 2111 | 2020-10-16 15:31:15 |
+-----+
2 rows in set (0.00 sec)
```

4. Add a column called book rating in customer table.

```
mysql> Alter table books add B_ratings varchar(10) not null;
Query OK, 0 rows affected (3.25 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc books;
 Field | Type | Null | Key | Default
                    int
                                           | PRI | NULL
 isbn
 Title
                  | varchar(25) | NO
                                                  NULL
                  | varchar(50) | NO
 Category
                                                  NULL
                                                  NULL
 Price
                   | int
                                    NO

        Status
        | varchar(20) | YES |

        Author
        | varchar(20) | NO |

        Publisher
        | varchar(50) | NO |

                                                  NULL
                                                  NULL
                                                  | NULL
| 0000-00-00 00:00:00 | on update CURRENT_TIMESTAMP
 Updatation_Date | timestamp | NO
 B_ratings | varchar(10) | NO
9 rows in set (0.25 sec)
```

5. Display the Name of books with book id which were issued after April 2020.

6. Insert new issue entry at present day and time.

7. Try to insert value of a student in return table who haven't issued the book yet.

```
mysql> INSERT INTO return_status VALUES (1416, 2104,"HC Verma",'2020-09-15 12:05:20',1003); ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`mydb`.`return_status`, CONSTRAINT `return_status_ibfk_2` FOREIGN KEY (`Return_StudentID`) REFERENCES `issue_status` (`StudentID`))
```

Since student ID 2104 isn't taken any book, we cannot blindly give the input!!

8. Display the Issue ID, Student Name who's issued the book with isbn book number as 1004.

```
mysql> SELECT C.Issue_ID , A.student_Name
    -> FROM student A , issue_status C
    -> where A.student_ID = C.StudentID
    -> and C.isbn_book = 1004;.

+-----+
    | Issue_ID | student_Name |
    +-----+
    | 1374 | Aarti Rathi |
    +-----+
    1 row in set (0.18 sec)
```

9. Add a column called edition in customer table.

```
mysql> Alter table books add Edition varchar(10) not null;
Query OK, 0 rows affected (0.70 sec)
Records: 0 Duplicates: 0 Warnings: 0
mysql> desc books ;
 Field
                                | Null | Key | Default
                  Type
                                                                    Extra
 isbn
                   int(20)
                                 NO
                                         PRI
                                               NULL
                   varchar(25)
 Title
                                  NO
                                               NULL
                   varchar(50)
                                  NO
                                               NULL
 Category
 Price
                    int(8)
                                  NO
                                               NULL
 Status
                   varchar(20)
                                  YES
                                               NULL
 Author
                   varchar(20)
                                  NO
                                               NULL
 Publisher
                   varchar(50)
                                  NO
                                               NULL
 Updatation_Date | timestamp
                                  NO
                                               0000-00-00 00:00:00
                                                                     on update CURRENT_TIMESTAMP
 Edition
                  varchar(10)
                                 NO
                                               NULL
 rows in set (0.19 sec)
```

10. Display name and department in ascending order of registration date

```
mysql> SELECT student_Name , Dept
-> FROM student ORDER BY Regd_date ASC ;

+-----+
| student_Name | Dept |
+-----+
| Isha tyagi | IT |
| Aditya Kumar | ENTC |
| Nishu Rai | MECH |
| Aarti Rathi | ENTC |
| Shambhavi | IT |
| Riya Singh | COMP |
+------+
6 rows in set (0.00 sec)
```

11. Insert new issue entry at present day and time.

```
mysql> INSERT INTO issue_status(Issue_ID , StudentID , Issued_Book , isbn_book)
   -> VALUES (1321 , 2106 , "HC Verma" , 1003);
Query OK, 1 row affected (0.07 sec)
mysql> select * from issue status ;
 Issue_ID | StudentID | Issued_book | Issue_date | isbn_book
               2111 | Half Girlfriend | 2020-05-14 11:44:05 |
     1302
                                                               1001
              2108 | HC Verma | 2020-03-28 10:30:29
     1314
                                                              1003
                                     2021-06-11 18:27:06
               2106 | HC Verma
     1321
                                                               1003
     1374 | 2101 | RD SHARMA | 2021-11-18 15:12:25 |
                                                               1004
 rows in set (0.00 sec)
```

12. Display books with price greater than Rs. 1000

13. Display the student name who issued the book "science" type.

14. Display the names in alphabetical order

15. Display all student name in upper case

16. Create a view consisting of employee name and position.

17. Display name of students starting with 'A'

```
mysql> SELECT * from student
-> WHERE student_Name LIKE 'A%';

| student_ID | Dept | student_Name | student_Email | student_Address | Regd_date |

| 2101 | ENTC | Aarti Rathi | aartirathi@gmail.com | Pune | 2019-07-08 11:30:29 |

| 2108 | ENTC | Aditya Kumar | adiKumar@gmail.com | Bhopal | 2018-04-10 12:03:51 |

2 rows in set (0.14 sec)
```

18. Display the total number of issued books till date

```
mysql> SELECT COUNT(isbn_book) from issue_status;

+-----+

| COUNT(isbn_book) |

+-----+

| 4 |

+-----+

1 row in set (0.03 sec)
```

19) Display name and department of students having 'S' in their name

20) Display sum of price of all the books from 'Books' table.

21) Display the Title of book having minimum price

```
mysql> select min(price),Title from books;

+-----+

| min(price) | Title |

+-----+

| 500 | Half Girlfriend |

+-----+
```

22) Group the students according to their branch

```
mysql> select Dept,student_name from student group by dept;

| Dept | student_name |

+----+
| ENTC | Aarti Rathi |
| MECH | Nishu Rai |
| COMP | Riya Singh |
| IT | Isha tyagi |

+----+
4 rows in set (0.00 sec)
```

23) Create a view having attributes name, email, and student address.

```
mýsql> create view student_detail as select student_Namé,student_Address,student_Email from student;
Query OK, O rows affected (0.02 sec)
mysql> select * from student_detail;
  student_Name | student_Address | student_Email
                                       aartirathi@gmail.com
  Aarti Rathi
                                       RaiNishu@gmail.com
  Nishu Rai
                   Bangalore
  Riya Singh
                   Jaipur
                                       riya@gmail.com
  Aditya Kumar
                   Bhopa
                                       adiKumar@gmail.com
                   Ambala
  Isha tyagi
                                       isha_here@gmail.com
  Shambhavi
                   New Delhi
                                       shambhavi@gmail.com
  rows in set (0.01 sec)
```

24) Select details of the books whose category name is starting with 'M'

25) Select name of student having 10 digits in their name

```
mysql> select * from student where student_name like
                       student_Name | student_Email
                                                                                  Regd_date
 student_ID |
                                                               student_Address
               Dept
                       Riya Singh
Isha tyagi
                                                                                  2019-10-18 16:02:22
        2106
               COMP
                                       riya@gmail.com
                                                               Jaipur
                                       isha_here@gmail.com
                                                               Ambala
                                                                                  2018-03-16 13:40:21
 rows in set (0.00 sec)
```