**Project 3**

In the populatedata.sql, while inserting the values, I was unable to insert foreign key values so I have used coalesce () function to update the null values for foreign keys.

The queries for this project:

1. select all customer first name and book title

**select cus\_first\_name,book\_title**

**from customer,book**

**where customer.cus\_id = book.cus\_id;**

1. count the number of book categories in the system

**select category, count(book\_id) as num\_books**

**from book**

**group by category;**

1. list customer first name who borrowed educational books

**select cus\_first\_name, book\_title**

**from customer,book**

**where customer.cus\_id = book.cus\_id**

**and category = 'educational';**

1. list the book title and genre which is ordered by title

**select book\_title,genre\_name**

**from book,genre**

**where book.book\_id = genre.book\_id**

**order by book\_title;**

1. find the average fine amount customers charged

**select avg(amount)**

**from fine;**

1. find fine amount which is above the average amount

**select distinct amount**

**from fine**

**where amount > (select avg(amount)**

**from fine);**

1. Write the customer first name who has paid more than the average amount

**select cus\_first\_name, amount**

**from customer,fine**

**where customer.fine\_id = fine.fine\_id**

**and amount > (select avg(amount)**

**from fine);**

1. Find customer first name and book title which has available reservation status

**select book\_title,cus\_first\_name**

**from book,customer,reservation**

**where reservation.res\_id = customer.res\_id**

**and customer.cus\_id = book.cus\_id**

**and res\_status = 'available';**

1. find customer first name and occupation who borrowed novel

**select cus\_first\_name,occupation**

**from customer,book**

**where customer.book\_id = book.book\_id**

**and category= 'novel';**

1. How many of employee are in each employee status

**select emp\_status,count(emp\_status)**

**from library\_employee**

**group by emp\_status;**

1. The total fine amount that the customer charged in the system

**select sum(amount)**

**from fine;**

**Query to create view**

**create view library as**

**select cus\_first\_name,cus\_last\_name,book\_title,genre\_name**

**from customer,book,genre**

**where**

**customer.cus\_id = book.cus\_id**

**and**

**book.book\_id = genre.book\_id;**