



AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

DISTRIBUTED DATABASE SYSTEM LAB

CSE 4126

Book Store Management

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1 Introduction

Book Store Management system is basically for management of incoming and outgoing material from the Book shop It also maintain management of all incoming and outgoing finance from the Shop account section. It will reduce paper work , work load of user. To reduce the paper work and provide fast service to customers. The main objective is to provide the customers fast and error free transaction. It can be used in any Book Shop for maintaining database details and their quantities. This project is used for handle user needs. It must be outgoing process to know requirements of customer during whole system development

2 Platform

- Oracle 10g.
- PL/SQL

3 Database Schema

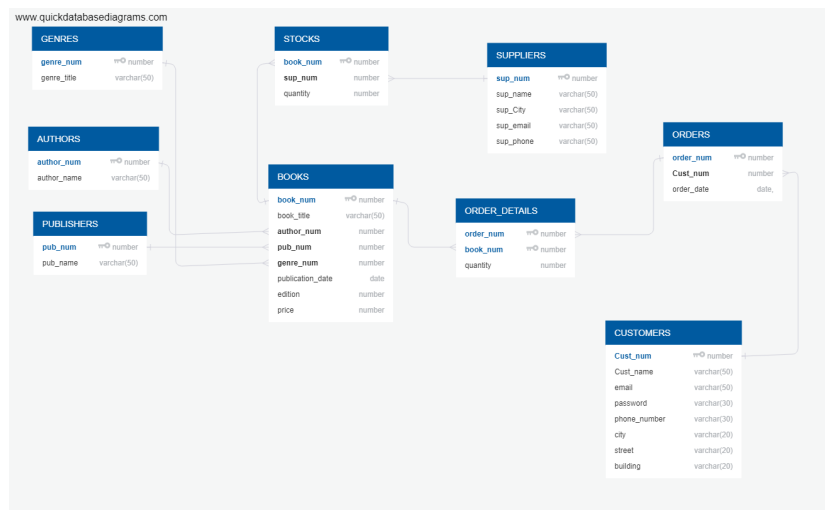


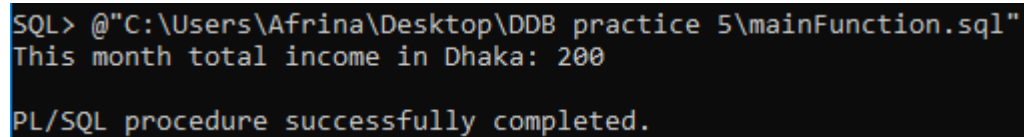
Figure 1: Database Schema.

4 Functions and Procedures

4.1 Monthly Income

This function retrieves the amount of current month income. Function gets the system date and calculates the amount from the first day of the month to current date.

```
select sum(bo.price*ordd.quantity) into totalIncome from
(select book_num, price from books@site_link_dhaka) bo
inner join (select book_num, quantity, order_num
from order_details@site_link_dhaka) ordd
on bo.book_num = ordd.book_num inner join
(select order_date, order_num
from orders@site_link_dhaka
where to_char( sysdate, 'mm' ) =
to_char( orders.order_date, 'mm' ) and
to_char( sysdate, 'yyyy') =
to_char( orders.order_date, 'yyyy')) ord on
ord.order_num = ordd.order_num;
```



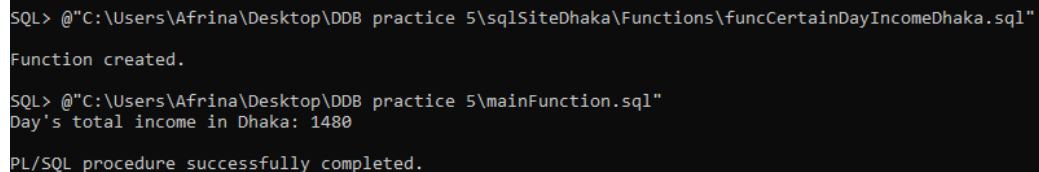
```
SQL> @"C:\Users\Afrina\Desktop\DDb practice 5\mainFunction.sql"
This month total income in Dhaka: 200
PL/SQL procedure successfully completed.
```

Figure 2: Total Income of the current Month.

4.2 Daily Income

This function retrieves the amount of the given day's income. Function gets the system date and calculates the amount from the first day of the month to current date.

```
select sum(bo.price*ordd.quantity) into totalIncome
from (select book_num, price from
books@site_link_dhaka) bo inner join
(select book_num, quantity, order_num
from order_details@site_link_dhaka) ordd on
bo.book_num = ordd.book_num inner join
(select order_date, order_num from
orders@site_link_dhaka where to_char( var_date, 'dd' )
= to_char( orders.order_date, 'dd' ) and
to_char( var_date, 'mm' ) =
to_char( orders.order_date, 'mm' ) and
to_char( var_date, 'yyyy') =
to_char( orders.order_date, 'yyyy')) ord on
ord.order_num = ordd.order_num;
```



```
SQL> @"C:\Users\Afrina\Desktop\DDB practice 5\sqlSiteDhaka\Functions\funcCertainDayIncomeDhaka.sql"
Function created.

SQL> @"C:\Users\Afrina\Desktop\DDB practice 5\mainFunction.sql"
Day's total income in Dhaka: 1480

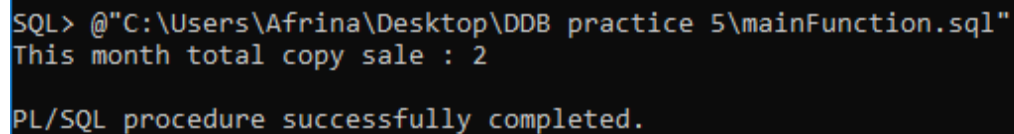
PL/SQL procedure successfully completed.
```

Figure 3: Total Income of a curtain Day.

4.3 Monthly Copy Sell

This function retrieves the amount of copy sold in the current month. Function gets the system date and calculates the amount of sold copies from the first day of the month to current date.

```
select sum(ordd.quantity) into totalCopy
from (select order_num, quantity from
order_details@site_link_dhaka) ordd
inner join (select order_num from
orders@site_link_dhaka where to_char( sysdate, 'mm' )
= to_char( orders.order_date, 'mm' )
and to_char( sysdate, 'yyyy') =
to_char( orders.order_date, 'yyyy'))
ord on ord.order_num = ordd.order_num;
```

A screenshot of a SQL command window with a black background and white text. The text shows a SQL prompt followed by a file path, the output of the procedure, and a confirmation message.

```
SQL> @"C:\Users\Afrina\Desktop\DDB practice 5\mainFunction.sql"
This month total copy sale : 2

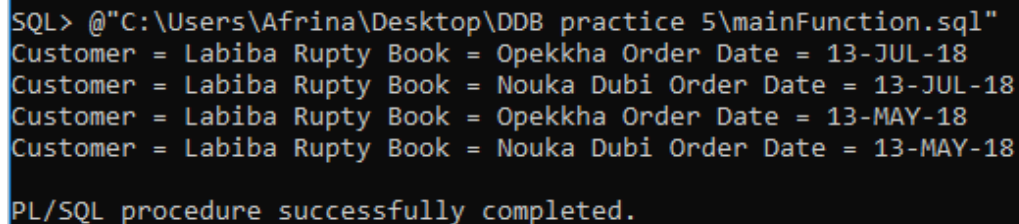
PL/SQL procedure successfully completed.
```

Figure 4: Total number of Sold Copies in the current Month.

4.4 Customer Bought Books

This Procedure shows the books bought by a curtain customer along with the date he bought the books.

```
select cust_name, order_date, book_title from
(select order_num, order_date, cust_num from
orders@site_link_khulna) ord inner join
(select order_num, book_num from
order_details@site_link_khulna) ordd on
ord.order_num = ordd.order_num inner join
(select cust_num, cust_name from
customers@site_link_khulna where
cust_num = var_custNum) cus on
cus.cust_num = ord.cust_num inner join
(select book_num, book_title from
books@site_link_khulna) bo on
bo.book_num = ordd.book_num;
```



```
SQL> @"C:\Users\Afrina\Desktop\DDB practice 5\mainFunction.sql"
Customer = Labiba Rupty Book = Opekkha Order Date = 13-JUL-18
Customer = Labiba Rupty Book = Nouka Dubi Order Date = 13-JUL-18
Customer = Labiba Rupty Book = Opekkha Order Date = 13-MAY-18
Customer = Labiba Rupty Book = Nouka Dubi Order Date = 13-MAY-18

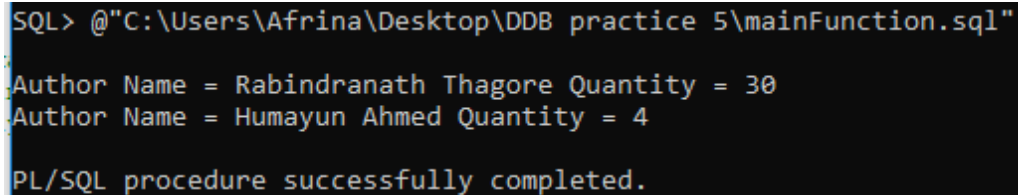
PL/SQL procedure successfully completed.
```

Figure 5: The Details of the books bought by a curtain customer.

4.5 Author Rank

This Procedure mainly ranks author according to the most selling books from the store with how many copy of that books are sold-out.

```
select aut.author_num as id,  
aut.author_name as name,  
sum(ordd.quantity) as quan from  
(select quantity, book_num from  
order_details@site_link_khulna) ordd  
inner join (select book_num, author_num from  
books@site_link_khulna) bo on  
ordd.book_num=bo.book_num inner join  
(select author_num, author_name from  
authors@site_link_khulna) aut on  
aut.author_num=bo.author_num group by  
(aut.author_num, aut.author_name) order by  
(sum(ordd.quantity)) desc;
```



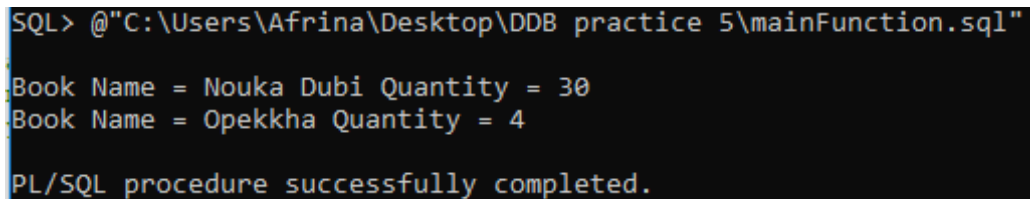
```
SQL> @"C:\Users\Afrina\Desktop\DDB practice 5\mainFunction.sql"  
  
Author Name = Rabindranath Thagore Quantity = 30  
Author Name = Humayun Ahmed Quantity = 4  
  
PL/SQL procedure successfully completed.
```

Figure 6: The Details of the Authors whose books are sold the most.

4.6 Book Rank

This Procedure mainly ranks most selling books from the store with how many copy of that books are sold-out.

```
select ordd.book_num as id,  
bo.book_title as title,  
sum(ordd.quantity) as quan from  
(select book_num, quantity from  
order_details@site_link_khulna) ordd  
inner join (select book_num, book_title from  
books@site_link_khulna) bo on  
ordd.book_num=bo.book_num group by  
(ordd.book_num, bo.book_title) order by  
(sum(ordd.quantity)) desc;
```



```
SQL> @"C:\Users\Afrina\Desktop\DDB practice 5\mainFunction.sql"  
  
Book Name = Nouka Dubi Quantity = 30  
Book Name = Opekkha Quantity = 4  
  
PL/SQL procedure successfully completed.
```

Figure 7: The Details of the books which were sold the most.

5 Future Plan

- Employee Payroll
- Printing receipt
- Discount System by studying Customer History
- implementing KNN Classifier
- Supplying Cost

References

- [1] McGraw Hill Osborne. [*Oracle Database 10G - The Complete Reference*].