**Assignment No.7**

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**Q. 1 Write a PL/SQL function to accept publisher name and return the total number of authors who have written books for the publisher.**

CREATE OR REPLACE FUNCTION GetAuthorCount(name IN string)

RETURN number

IS

count\_of\_authors NUMBER;

BEGIN

SELECT COUNT(\*) INTO count\_of\_authors FROM BOOK WHERE PUBLISHER\_NAME = NAME;

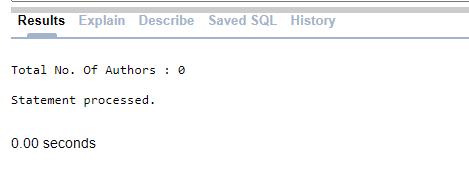
RETURN count\_of\_authors;

END;

BEGIN

DBMS\_OUTPUT.PUT\_LINE('Total No. Of Authors : ' || GetAuthorCount('&PUBLISHER\_NAME'));

END;



**Q. 2 Write a PL/SQL trigger that is fired after inserting a record in the table book\_loans to update member\_book\_count table.**

1. **Create table member\_book\_count( card\_no, branch\_id, total\_books\_issued)**

CREATE TABLE MEMEBER\_BOOK\_COUNT(

Card\_no INT,

FOREIGN KEY (Card\_no) REFERENCES Borrower(Card\_no),

Branch\_id VARCHAR2(20),

Total\_books\_issued INT

);

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Table** | | | **Column** | **Data Type** | **Length** | **Precision** | **Scale** | **Primary Key** | **Nullable** | **Default** | **Comment** | | [MEMEBER\_COUNT\_BOOK](javascript:ret_Column('BHAVIN.MEMEBER_COUNT_BOOK');) | | | [CARD\_NO](javascript:ret_Column('CARD_NO');) | NUMBER | 22 | - | 0 | - | nullable | - | - | |  | | | [BRANCH\_ID](javascript:ret_Column('BRANCH_ID');) | VARCHAR2 | 20 | - | - | - | nullable | - | - | |  | | | [TOTAL\_BOOKS\_ISSUED](javascript:ret_Column('TOTAL_BOOKS_ISSUED');) | NUMBER | 22 | - | 0 | - | nullable | - | - | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  |  | 1 - 3 |  |  | | | | | | | | | | | | | |  |  |  |  | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |

CREATE OR REPLACE TRIGGER UpdateMemberCount

AFTER INSERT ON Book\_Loans

FOR EACH ROW

BEGIN

INSERT INTO Member\_Book\_Count VALUES (:new.Card\_no, :new.Branch\_id, 10);

DBMS\_OUTPUT.PUT\_LINE('Record Inserted In Member\_Book\_Count Through Trigger Successfully !!!');

END;

INSERT into BOOK\_LOANS VALUES(222,456,345589,'01/08/2022','02/08/2022')

SELECT\* from BOOK\_LOANS;

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **BOOK\_ID** | **BRANCH\_ID** | **CARD\_NO** | **DATE\_OUT** | **DUE\_DATE** |
| 101 | 456 | 123456 | 01/12/2022 | 02/11/2022 |
| 113 | 234 | 678903 | 01/12/2022 | 03/11/2022 |
| 201 | 456 | 456789 | 01/15/2022 | 02/14/2022 |
| 101 | 892 | 123789 | 01/11/2022 | 01/10/2022 |
| 222 | 234 | 987654 | 01/22/2022 | 02/21/2022 |
| 192 | 456 | 123890 | 01/01/2022 | 04/01/2022 |
| 222 | 892 | 432678 | 01/15/2022 | 02/14/2022 |
| 101 | 234 | 345589 | 01/07/2022 | 01/22/2022 |