## **BOOK STORE MANAGEMENT DBMS-PROJECT**

```
CREATE TABLE manager (
 manager id INTEGER PRIMARY KEY,
 manager name VARCHAR(100) NOT NULL
CREATE TABLE books (
book id INTEGER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
manager id INTEGER NOT NULL,
title VARCHAR(100) NOT NULL,
author VARCHAR(100) NOT NULL,
publisher VARCHAR(100) NOT NULL,
price NUMBER(10,2) NOT NULL,
stock INTEGER NOT NULL,
FOREIGN KEY (manager id) REFERENCES manager (manager id)
CREATE TABLE customers (
customer id INTEGER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
name VARCHAR(100) NOT NULL,
email VARCHAR(100) NOT NULL,
phone VARCHAR(20) NOT NULL
):
CREATE TABLE orders (
order id INTEGER GENERATED BY DEFAULT AS IDENTITY PRIMARY KEY,
customer id INTEGER NOT NULL,
order date DATE DEFAULT SYSDATE,
FOREIGN KEY (customer id) REFERENCES customers (customer id)
);
CREATE TABLE order items (
order id INTEGER NOT NULL,
book id INTEGER NOT NULL,
quantity INTEGER NOT NULL,
PRIMARY KEY (order id, book id),
FOREIGN KEY (order id) REFERENCES orders (order id),
FOREIGN KEY (book id) REFERENCES books (book id)
);
INSERT INTO manager VALUES('24','Ram');
INSERT INTO manager VALUES('27','Sham');
INSERT INTO manager VALUES('10', 'Balram');
```

<ul> <li>24 Ram</li> <li>27 Sham</li> <li>10 Balram</li> </ul>	MANAGER_ID	MANAGER_NAME
	24	Ram
10 Balram	27	Sham
20 Bactain	10	Balram

```
INSERT INTO books VALUES('237','24','Magic Tree','Abhinav','Sushant','1500','20');
INSERT INTO books VALUES('452','27', 'Winter Fairy', 'Shubham', 'Manoj', '2000', '10');
INSERT INTO books VALUES('480','10','Enchanted','Aryan','Vikas','2500','8');
INSERT INTO customers VALUES('1','Pranjali','pranjali15@gmail.com','9834652376');
INSERT INTO customers VALUES('2','Jasmine','jasmine17@gmail.com','7640271548');
INSERT INTO customers VALUES('3','Nandini','nandini5@gmail.com','9843725476');
INSERT INTO orders VALUES('39','1','15-JAN-2022');
INSERT INTO orders VALUES('72','2','27-APR-2022');
INSERT INTO orders VALUES('58','3','23-MAY-2022');
INSERT INTO order items VALUES('39','237','7');
INSERT INTO order items VALUES('72','452','5');
INSERT INTO order items VALUES('58','480','3');
select * from manager;
select * from books;
select * from customers;
select * from orders;
select *from order items;
```

```
Table created.
                        1 row(s) inserted.
1 row(s) inserted.
1 row(s) inserted.
                        1 row(s) inserted.
1 row(s) inserted.
                        1 row(s) inserted.
1 row(s) inserted.
                        1 row(s) inserted.
```

BOOK_ID	MANAGER_ID	TITLE	AUTHOR	PUBLISHER	PRICE	STOCK
237	24	Magic Tree	Abhinav	Sushant	1500	20
452	27	Winter Fairy	Shubham	Manoj	2000	10
480	10	Enchanted	Aryan	Vikas	2500	8

ORDER_ID	BOOK_ID	QUANTITY
39	237	7
72	452	5
58	480	3

```
) RETURN NUMBER IS
  v total NUMBER := 0;
BEGIN
  SELECT SUM(quantity * price)
  INTO v total
  FROM order items oi
  JOIN books b ON oi.book id = b.book id
  WHERE oi.order id = p order id;
  RETURN v total;
END;
CREATE OR REPLACE TRIGGER update stock
AFTER INSERT ON order items
FOR EACH ROW
DECLARE
 v stock books.stock%TYPE;
BEGIN
 SELECT stock INTO v stock FROM books WHERE book id = :NEW.book id;
 UPDATE books SET stock = v stock - : NEW.quantity WHERE book id = : NEW.book id;
END;
CREATE OR REPLACE TRIGGER prevent negative price
BEFORE INSERT, UPDATE ON books
FOR EACH ROW
BEGIN
 IF: NEW.price < 0 THEN
 RAISE APPLICATION ERROR(-20007, 'Price cannot be negative.');
END IF;
END;
CREATE OR REPLACE PROCEDURE update book stock (
  p book id IN INTEGER,
  p stock IN INTEGER
) IS
BEGIN
  UPDATE books
  SET stock = p stock
  WHERE book id = p book id;
```

```
COMMIT;
END;
INSERT INTO orders (customer id)
VALUES (1);
INSERT INTO order items (order id, book id, quantity)
VALUES (1, 1, 2);
SELECT get order total(39) FROM dual;
BEGIN
 update_book_stock(237, 150);
END;
select * from books;
DECLARE
 CURSOR c1 IS
  SELECT title, author
  FROM books;
 v title books.title%TYPE;
 v author books.author%TYPE;
BEGIN
 OPEN c1;
 LOOP
  FETCH c1 INTO v title, v author;
  EXIT WHEN c1%NOTFOUND;
  DBMS OUTPUT.PUT LINE('Title: ' || v title || ', Author: ' || v author);
 END LOOP;
 CLOSE c1;
END;
*/
```

Function created.

Trigger created.

Trigger created.

Procedure created.

1 row(s) inserted.

Statement processed.

Title: Magic Tree, Author: Abhinav Title: Winter Fairy, Author: Shubham

Title: Enchanted, Author: Aryan

GET\_ORDER\_TOTAL(39)

10500

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Statement processed.

BOOK_ID	MANAGER_ID	TITLE	AUTHOR	PUBLISHER	PRICE	<b>STOCK</b>
237	24	Magic Tree	Abhinav	Sushant	1500	150
452	27	Winter Fairy	Shubham	Manoj	2000	10
480	10	Enchanted	Aryan	Vikas	2500	8