

Task 12

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Develop a Micro Project Based On
Business Scenarios And Use Cases

Title: Online book store management system.

Aim: To design and implement a database driven system that manages books, customers and their orders using that SQL for data storage, retrieval and analytics.

⇒ Create databases

```
CREATE DATABASE bookstore-db
```

```
USE bookstore-db;
```

⇒ Create books table and insert values

```
CREATE TABLE books (book-id, INT Primary key,  
title VARCHAR(100), author VARCHAR(100), price  
DECIMAL(6,2), quantity INT);
```

⇒ INSERT INTO books VALUES

```
('The Alchemist', 'Paulo Coelho', 399.00,  
10), ('Atomic habits', 'James Cook',  
4.990, 15), ('Rich Dad Poor dad',  
'Robert Kiyosaki', (299.00, 8));
```

⇒ Display

```
SELECT * FROM books;
```


Book-ID	Title	Author	Price	Quantity
1	The Alchemist	Paulo Coelho	399	10
2	Atomic habits	James Cook	499	15
3	Rich dad poor dad	Robert Kiyosaki	299	19

⇒ Create customer table and insert values

CREATE TABLE customers (customer_id INT, name VARCHAR(10), email VARCHAR(100), phone VARCHAR(10);

INSERT INTO customers

VALUES ('Priya', 'priya@gmail.com', '9876543210'),

('Ankit', 'ankit@gmail.com', '9840502072');

⇒ Display table customers.

Customer ID	Name	Email	Phone
1	Priya	priya@gmail.com	9876543210
2	Ankit	ankit@gmail.com	9840502072

12.1 Search a book by title

SELECT * FROM

books

WHERE: title LIKE '%Atomic%'

Output:

BOOK ID	Title	Author	Price	Quantity
2	Atomic habits	James Cook	499.00	15

12.2 Update book quantity after purchase

UPDATE books

SET quantity = quantity - 2

WHERE book-id = 2 ;

Output:

Book - ID	Title	Author	Price	Quantity
1	The Alchemist	Paulo	399	10
2	Atomic habits	James	499	13
3	Rich dad, poor dad.	Robert	299	18

12.3 Find best selling books

SELECT b.title, SUM(o.quantity) AS total sold
FROM orders o

JOIN books b ON o.book-id = b.book-id

GROUP BY b.title

ORDER BY total-sold

DESC

LIMIT 1 ;

Output:

Title	Total-sold
Atomic habits	2

12.4 Calculate total revenue

```
SELECT SUM (b.price * o.quantity) AS
```

```
total_revenue
```

```
FROM orders o
```

```
JOIN books b ON o.book_id = b.book_id;
```

Output:

Total Revenue
998.06

Result: Hence the given task has been successfully completed and the output has been verified.