

Do Not Forward

Follow up. Start by Friday, September 19, 2025. Due by Friday, September 19, 2025.
 Encrypted - Permission granted by: harinip@infosys.com

Business Scenario:

"Book Haven" is an online bookstore that offers a variety of books to its customers. They want to store information about their books, customers, and purchase transactions. To manage this data, they have designed the following database schema.

Table: books

The books table provides details about the books available.


Column Name	Data Type and Size	Constraints	Description
book_id	CHAR(6)	PRIMARY KEY, CHECK	Unique book ID, starts with 'BK'
title	VARCHAR2(50)	NOT NULL	Title of the book
author	VARCHAR2(30)	NOT NULL	Author of the book
genre	VARCHAR2(20)	NOT NULL	Genre of the book
stock_quantity	NUMBER	NOT NULL	Quantity of books in stock
price	NUMBER	CHECK	Price of the book in USD, greater than 0

Table: customers

The customers table provides details about the registered customers.

Column Name	Data Type and Size	Constraints	Description
customer_id	CHAR(5)	PRIMARY KEY, CHECK	Unique customer ID, starts with 'CU'
customer_name	VARCHAR2(30)	NOT NULL	Name of the customer
email	VARCHAR2(30)	NOT NULL	Email address of the customer
address	VARCHAR2(50)	NOT NULL	Address of the customer
phone_number	NUMBER(10)		Phone number of the customer

All folders are up to date. Connected to: Microsoft Exchange

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Table: orders

The orders table provides details about the book purchase orders.

Column Name	Data Type and Size	Constraints	Description
order_id	NUMBER	PRIMARY KEY	Unique order ID
book_id	CHAR(6)	FOREIGN KEY	Existing book ID from the books table
customer_id	CHAR(5)	FOREIGN KEY	Existing customer ID from the customers table
quantity_ordered	NUMBER(2)	NOT NULL	Quantity of books ordered in the transaction
order_date	DATE		Date of the order

Sample Data for books Table:

book_id	title	author	genre	stock_quantity	price
BK1001	The Silent Patient	Alex Michaelides	Thriller	30	15
BK1002	Project Hail Mary	Andy Weir	Sci-Fi	25	20
BK1003	The Midnight Library	Matt Haig	Fantasy	40	18
BK1004	Dune	Frank Herbert	Sci-Fi	20	25
BK1005	Circe	Madeline Miller	Fantasy	35	22

Sample Data for customers Table:

customer_id	name	email	address	phone_number
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BK1005	Circe	Madeline Miller	Fantasy	35	22
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Sample Data for customers Table:

customer_id	customer_name	email	address	phone_number
CU101	Alice Smith	alice@email.com	123 Main St	9876543210
CU102	Bob Johnson	bob@email.com	456 Oak Ave	8765432109
CU103	Carol White	carol@email.com	789 Pine Ln	7654321098
CU104	David Lee	david@email.com	101 Elm Rd	6543210987
CU105	Eve Green	eve@email.com	202 Maple Dr	5432109876

Sample Data for orders Table:

order_id	book_id	customer_id	quantity_ordered	order_date
1001	BK1001	CU101	2	2023-10-26
1002	BK1002	CU102	1	2023-10-26
1003	BK1003	CU101	3	2023-10-27
1004	BK1004	CU103	2	2023-10-27
1005	BK1005	CU104	1	2023-10-28
1006	BK1001	CU103	4	2023-10-28
1007	BK1003	CU105	2	2023-10-29
1008	BK1002	CU106	3	2023-10-29

Write SQL Queries for the following:

1002	BK1002	CU102	1	2023-10-26
1003	BK1003	CU101	3	2023-10-27
1004	BK1004	CU103	2	2023-10-27
1005	BK1005	CU104	1	2023-10-28
1006	BK1001	CU103	4	2023-10-28
1007	BK1003	CU105	2	2023-10-29
1008	BK1002	CU106	3	2023-10-29

Write SQL Queries for the following:

Important Note: Display UNIQUE records wherever applicable.

- Display the combination of `book_id` and `title` separated by a hyphen ('-') as "BOOK-NAME" (column alias) and the genre of the books where the `stock_quantity` is 30 or more and the author's name has more than 8 characters.
- Display the `customer_id` and the number of orders made by each customer as "ORDERS" (column alias) who ordered more than one book per order and made more than one order.
- Display the `customer_name` and address of different customers living at the same address.
- Display the `book_id`, `title`, and price of those books where the genre does not contain 'i' in the second position and the price is greater than or equal to the average price of all books.



Search



All folders are up to date.

Connected to: Microsoft Exchange



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