## A Guided Project Report on

## **SQL FOR BEGINNERS: QUERYING DATA**

Project Scenario: Building a simple online bookstore database



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Sample SQL Source Code:
Creating Tables:
sql
Copy code
CREATE TABLE Books (
  ISBN VARCHAR(20) PRIMARY KEY,
  Title VARCHAR(100),
  Author VARCHAR(50),
  Price DECIMAL(10,2)
);
CREATE TABLE Customers (
  CustomerID INT PRIMARY KEY,
  Name VARCHAR(50),
  Email VARCHAR(100),
 Address VARCHAR(200)
);
CREATE TABLE Orders (
  OrderID INT PRIMARY KEY,
  CustomerID INT,
  OrderDate DATE,
  TotalAmount DECIMAL(10,2),
  FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID)
);
CREATE TABLE Order_Details (
  OrderID INT,
  ISBN VARCHAR(20),
  Quantity INT,
  Price DECIMAL(10,2),
```

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PRIMARY KEY (OrderID, ISBN),
  FOREIGN KEY (OrderID) REFERENCES Orders(OrderID),
  FOREIGN KEY (ISBN) REFERENCES Books(ISBN)
);
Inserting Sample Data:
sql
Copy code
INSERT INTO Books (ISBN, Title, Author, Price) VALUES
('9780345339683', 'The Hobbit', 'J.R.R. Tolkien', 9.99),
('9780439554930', 'Harry Potter and the Sorcerer's Stone', 'J.K. Rowling', 12.99);
INSERT INTO Customers (CustomerID, Name, Email, Address) VALUES
(1, 'John Doe', 'john@example.com', '123 Main St, Anytown, USA'),
(2, 'Jane Smith', 'jane@example.com', '456 Elm St, Othertown, USA');
INSERT INTO Orders (OrderID, CustomerID, OrderDate, TotalAmount) VALUES
(1001, 1, '2024-04-25', 22.98),
(1002, 2, '2024-04-26', 12.99);
INSERT INTO Order Details (OrderID, ISBN, Quantity, Price) VALUES
(1001, '9780345339683', 1, 9.99),
(1001, '9780439554930', 1, 12.99),
(1002, '9780439554930', 1, 12.99);
Querying Data:
sql
Copy code
-- Retrieve all books
SELECT * FROM Books;
-- Retrieve orders with customer information
```

SELECT Orders.OrderID, Customers.Name, Orders.OrderDate, Orders.TotalAmount

## FROM Orders

JOIN Customers ON Orders.CustomerID = Customers.CustomerID;

-- Calculate total sales for each book

SELECT b.Title, SUM(od.Quantity) AS TotalQuantity, SUM(od.Price \* od.Quantity) AS TotalSales

FROM Books b

JOIN Order\_Details od ON b.ISBN = od.ISBN