Experiment 1.2

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QUESTION 1 : Write a query to retrieve book titles along with their author's name and country using INNER JOIN.

ANSWER :

```
CREATE TABLE Authors (
    AuthorID INT PRIMARY KEY,
    FullName VARCHAR(100),
    Country VARCHAR(100)
);

CREATE TABLE Books (
    BookID INT PRIMARY KEY,
    Title VARCHAR(100),
    AuthorID INT,
    FOREIGN KEY (AuthorID) REFERENCES Authors(AuthorID)
);

INSERT INTO Authors (AuthorID, FullName, Country) VALUES (11, 'HITEN KAPOOR', 'INDIA');
INSERT INTO Authors (AuthorID, FullName, Country) VALUES (12, 'SANA KHAN', 'CANADA');
INSERT INTO Authors (AuthorID, FullName, Country) VALUES (13, 'RAJAT GUPTA', 'AUSTRALIA');

INSERT INTO Books (BookID, Title, AuthorID) VALUES (301, 'SHADOWS OF TIME', 11);
INSERT INTO Books (BookID, Title, AuthorID) VALUES (302, 'THE LOST CHAPTER', 12);
INSERT INTO Books (BookID, Title, AuthorID) VALUES (303, 'BEYOND THE HORIZON', 13);

SELECT
    B.Title AS BookTitle,
    A.FullName AS AuthorName,
```

```
    A.Country AS Origin
FROM
    Books B
INNER JOIN
    Authors A ON B.AuthorID = A.AuthorID
ORDER BY
    AuthorName;
```

Output:

```
+-------------------+----------------+------------+
| BookTitle         | AuthorName     | Origin     |
+-------------------+----------------+------------+
| SHADOWS OF TIME   | HITEN KAPOOR   | INDIA      |
| BEYOND THE HORIZON | RAJAT GUPTA   | AUSTRALIA  |
| THE LOST CHAPTER  | SANA KHAN      | CANADA     |
+-------------------+----------------+------------+
```

QUESTION 2 : Write a query to display student names and their course names using LEFT OUTER JOIN.
ANSWER :
CREATE TABLE Products (
    ProductID INT PRIMARY KEY,
    ProductName VARCHAR(100)
);

CREATE TABLE Vendors (
    VendorID INT PRIMARY KEY,
    VendorName VARCHAR(100)
);

CREATE TABLE Supplies (
    SupplyID INT PRIMARY KEY,
    ProductID INT,
    VendorID INT,
    Quantity INT,
    FOREIGN KEY (ProductID) REFERENCES Products(ProductID),
    FOREIGN KEY (VendorID) REFERENCES Vendors(VendorID)

);

```sql
INSERT INTO Products (ProductID, ProductName) VALUES (1, 'GRAPHIC TABLET');
INSERT INTO Vendors (VendorID, VendorName) VALUES (1, 'TECHSTORE LTD');

INSERT INTO Supplies (SupplyID, ProductID, VendorID, Quantity) VALUES (1001, 1, 1, 50);

SELECT
    P.ProductName,
    V.VendorName,
    S.Quantity
FROM
    Supplies S
JOIN
    Products P ON S.ProductID = P.ProductID
JOIN
    Vendors V ON S.VendorID = V.VendorID;
```

Output:

```
+----------------+----------------+----------+
| ProductName    | VendorName     | Quantity |
+----------------+----------------+----------+
| GRAPHIC TABLET | TECHSTORE LTD  |       50 |
+----------------+----------------+----------+
```