

Verification Queries:

Only return books info

```
SELECT Item.ItemID, Title, AvailabilityStatus PublicationDate, AuthorID, Type, Genre, ISBN
FROM Item
JOIN Book
ON Item.ItemID = Book.ItemID;
```

Only return magazines info

```
SELECT Item.ItemID, Title, AvailabilityStatus PublicationDate, AuthorID, Type, Genre,
IssueNumber
FROM Item
JOIN Magazine
ON Item.ItemID = Magazine.ItemID;
```

Only return digital media info

```
SELECT Item.ItemID, Title, AvailabilityStatus PublicationDate, AuthorID, Type, Genre,
MediaType
FROM Item
JOIN DigitalMedia
ON Item.ItemID = DigitalMedia.ItemID;
```

Return the name of who reserved what item title

```
SELECT r.ReservationID, c.FirstName, c.LastName, i.Title
FROM Reserves r
JOIN Client c ON r.ClientID = c.ClientID
JOIN Item i ON r.ItemID = i.ItemID;
```

Author creates items

```
SELECT a.FirstName, a.LastName, i.Title, i.ItemID
FROM Creates c
JOIN Author a ON c.AuthorID = a.AuthorID
JOIN Item i ON c.ItemID = i.ItemID;
```

Return the late fees and the names of the clients who owe them

```
SELECT C.FirstName, C.LastName, SUM(L.LateFee) AS Charges
```

```
FROM Loans L
JOIN Client C ON L.ClientID=C.ClientID
WHERE L.LateFee IS NOT NULL
GROUP BY C.ClientID
```

Return the accounts of people who are suspended

```
SELECT *
FROM Client
WHERE accountstatus = 'Suspended';
```

Return the client who has loaned the most items and the amount of items they have loaned

```
SELECT C.FirstName, C.LastName, COUNT(L.ItemID) AS Items
FROM Loans L
JOIN Client C ON C.ClientID = L.ClientID
GROUP BY C.FirstName, C.LastName
ORDER BY Items DESC
LIMIT 1;
```

Attempt to delete ItemID 1 - This should return an error!

```
DELETE FROM Item WHERE ItemID = 1;
```

Attempt to delete ItemID 1 - By cleaning it up in every potential child record first - This should work.

```
DELETE FROM Reserves Where ItemID = 1;
DELETE FROM Loans Where ItemID = 1;
DELETE FROM Creates Where ItemID = 1;
DELETE FROM Book Where ItemID = 1;
DELETE FROM Magazine Where ItemID = 1;
DELETE FROM DigitalMedia Where ItemID = 1;
DELETE FROM Item Where ItemID = 1;
```

✖	58	21:59:07	DELETE FROM Item WHERE ItemID = 1	Error Code: 1451. Cannot delete or update a parent row: a foreign key constrai...	0.016 sec
✔	59	21:59:43	DELETE FROM Reserves Where ItemID = 1	0 row(s) affected	0.000 sec
✔	60	21:59:43	DELETE FROM Loans Where ItemID = 1	1 row(s) affected	0.000 sec
✔	61	21:59:43	DELETE FROM Creates Where ItemID = 1	1 row(s) affected	0.016 sec
✔	62	21:59:43	DELETE FROM Book Where ItemID = 1	0 row(s) affected	0.000 sec
✔	63	21:59:43	DELETE FROM Magazine Where ItemID = 1	1 row(s) affected	0.000 sec
✔	64	21:59:43	DELETE FROM DigitalMedia Where ItemID = 1	0 row(s) affected	0.000 sec
✔	65	21:59:43	DELETE FROM Item Where ItemID = 1	1 row(s) affected	0.000 sec

Attempt to insert an Item with a null value in attribute Type - This should return an error!

INSERT INTO Item (Title, AvailabilityStatus, PublicationDate, AuthorID, Type, Genre)

Values ("New Item", 1, '2024-12-03', 1, NULL, "Fantasy");

Attempt to insert an Item with a null value in attribute Author - This should work as intended

INSERT INTO Item (Title, AvailabilityStatus, PublicationDate, AuthorID, Type, Genre)

Values ("New Item", 1, '2024-12-03', NULL, 'Physical', "Fantasy");

Attempt to insert a key and then a duplicate key; the duplicate key should cause an error.

INSERT INTO Item (ItemID, Title, AvailabilityStatus, PublicationDate, AuthorID, Type, Genre)

Values (1001, "New Item", 1, '2024-12-03', NULL, 'Physical', "Fantasy"), (1001, "New Item", 1, '2024-12-03', NULL, 'Physical', "Fantasy");