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Query 1
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Select rs.\*
From RFID\_Stream[UNBOUND] AS rs, (select \*
From StaticDB sdb
Where sdb.RoomNo = "036"
) As sdb36
Where sdb36.ReaderID = rs.ReaderID

## Query 2

Select DISTINCT movedOptmized.bookID
From(
Select b.BookID As bookID, sdb.RoomNo As roomNO
From RFID\_Stream [SIZE 30 MINUTES TIME] AS rs, Books AS b, StaticDB AS sdb
Where b.Tag\_ID == rs.Tag\_ID and sdb.ReaderID == rs.ReaderID
) As movedNotOptmized
(
Select DISTINCT b.BookID As bookID, sdb.RoomNo As roomNO
From RFID\_Stream [SIZE 30 MINUTES TIME] AS rs, Books b, StaticDB AS sdb
Where b.Tag\_ID = rs.Tag\_ID and sdb.ReaderID = rs.ReaderID

) As movedOptmized Where movedOptmized.bookID = movedNotOptmized.bookID and movedOptmized.roomNO != movedN otOptmized.roomNO

## Query 3

Select b.\*

From RFID\_Stream [SIZE 12 HOURS TIME] AS rs , Books AS b Where rs.Tag ID = b.Tag ID and b.Checkedout = true

## Query 4 (Assumption Reading Room has Room\_number 04)

SELECT DISTINCT bookID

FROM (SELECT \*

FROM books AS B, RFIDreader[SIZE 12 HOURS TIME] AS R, StaticDatabase AS D WHERE B.Tag\_ID= R.Tag\_ID AND R.ReaderID = D.ReaderID AND D.RoomNo != 04) AS first, (SELECT \*

FROM books AS B, RFIDreader[SIZE 12 HOURS TIME] AS R, StaticDatabase AS DWHERE B.Tag\_ID = R.Tag\_ID AND R.ReaderID = D.ReaderID AND D. RoomNo = 04)AS second, (SELECT \*FROM books AS B, RFIDreader[SIZE 12 HOURS TIME] AS R, StaticDatabase AS DWHERE B.Tag\_ID = R.Tag\_ID AND R.ReaderID = D.ReaderID AND D. RoomNo!= 04) AS third

WHERE first.bookID = second.bookID AND second.bookID = third.bookID AND first.timestamp < second.timestamp AND second.timestamp<third.timestamp

## Query 5

Select b.BookID
From Books AS b
Where b.BookID Not IN(
SELECT b.BookID
FROM RFIDreader[Size 1 MINUTES TIME] AS rs, Books AS b
WHERE rs.Tag\_ID = b.Tag\_ID
) and b.CheckedOut = false