

## SAMPLE EXAM QUESTIONS

Write a query to create the **SCHEMA** for the following relation called "Purchases." The primary key is the Transaction ID.

Do not insert the actual tuples into the relation Purchase.

Transaction ID	Customer ID	Service Name	Amount
1000A	12345	Regular Wash	18.50
3000C	987	Supreme Wash	25.99
1300B	5678	Deluxe Package	45.99
4200A	123	Exterior Wash	12.00

Write a query to add the following record to the Purchases relation.

Transaction ID	Customer ID	Service Name	Amount
3232F	3232	Super Wash	23.99

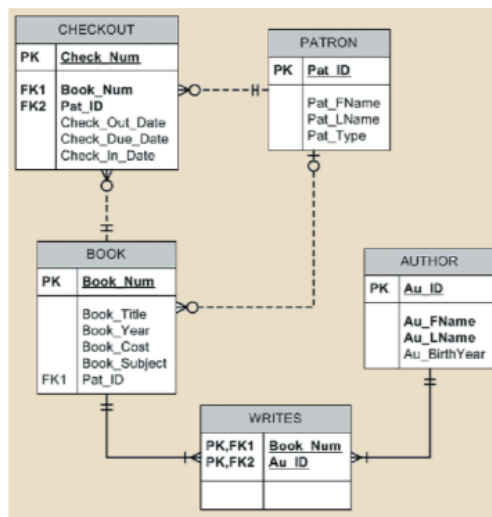
What does the **BETWEEN** keyword do?

- A. Filter numeric values
- B. Filter text values
- C. Filter values in a specified list
- D. Filter values in a specified range

\_\_\_ occurs when the same data are stored in many places.

- A) Data isolation
- B) Data integrity
- C) Data consistency
- D) Data redundancy
- E) Application/Data dependence

Use the Fact database to answer the following. (hint you will need to download it and install it on your UARK EPIC account)



1. Write a query that displays the book title, cost, and year of publications for every book in the system. Sort the results by book title.
2. Write a query that displays the first and last name of every patron and last name of every patron?

Results Messages

	PAT_FNAME	PAT_LNAME
1	Vera	Alvarado
2	Holly	Anthony
3	Cedric	Baldwin
4	Cory	Barry
5	Nadine	Blair
6	Erika	Bowen
7	Gerald	Burke
8	Ollie	Cantrell
9	robert	carter
10	Keith	Cooley

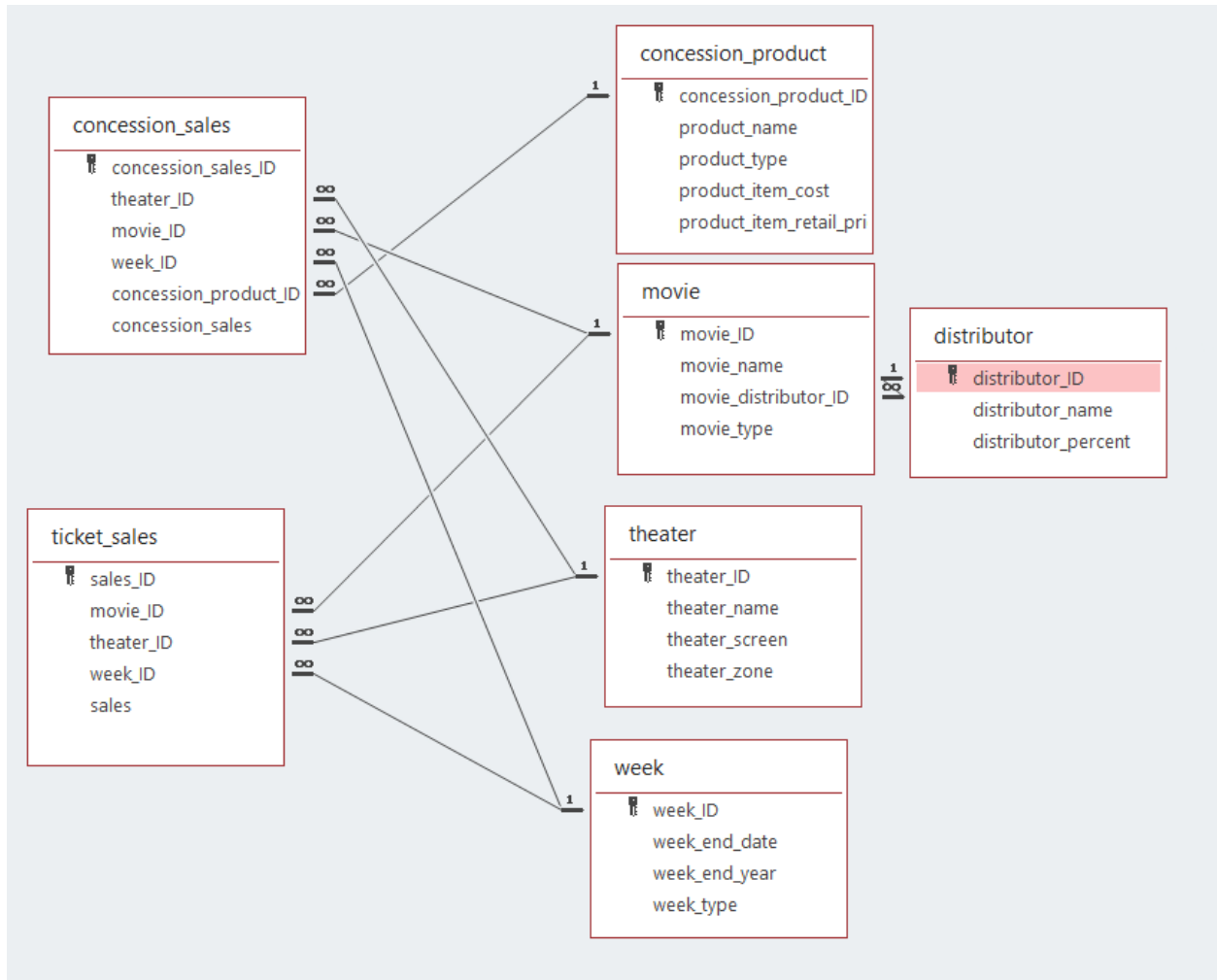
3. Write a query that to display the book number, book title, and subject for every book sorted by book number?

	BOOK_NUM	TITLE	Subject of Book
1	5235	Beginner's Guide to JAVA	Programming
2	5236	Database in the Cloud	Cloud
3	5237	Mastering the database environment	Database
4	5238	Conceptual Programming	Programming
5	5239	J++ in Mobile Apps	Programming
6	5240	iOS Programming	Programming
7	5241	JAVA First Steps	Programming
8	5242	C# in Middleware Deployment	Middleware
9	5243	DATABASES in Theory	Database
10	5244	Cloud-based Mobile Applications	Cloud

4. Write a query to display the checkout number, book number, and checkout date of all books checked out before April 5, 2017 sorted by checkout number.

5. Write a query to display the book number, title, subject, and costs for all books that are on the subjects of "Middleware" or "Cloud" and that costs more than \$70, sort by book number.

## CREATE THE RELATIONSHIPS IN THE FOLLOWING DB



For this part you will need to download the files

HARKINS\_0321.accdb

employees21.xlsx

### SELECT QUERY (10 points)

What movie had the worst ticket sales and what were the sales?

### SELECT QUERY (10 points)

In week 9, what movie had the highest sales? What was the sales amount?

**COMPOUND QUERY (10 points)**

In week 30, in zone 4, what movie had the highest sales? What was the sales amount?

**COMPOUND QUERY (10 points)**

In week 10, in zone 1, what movie had the **lowest** sales? What was the sales amount?

**COMPOUND QUERY (10 points)**

In week 17, in zone 7, what theater had the highest sales? What was the sales amount?

**AND/OR QUERY (10 points)**

Run a query that shows all the movies that reported ticket sales under \$112,000 and ticket sales over \$350,000 for week 39. Write the name of the movies and their sales amounts.