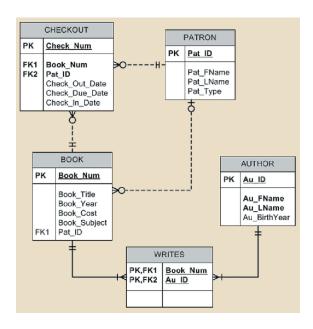
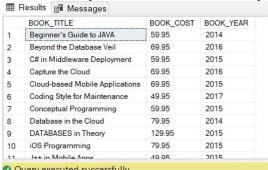
IN CIASS EXAM 2 REVIEW

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

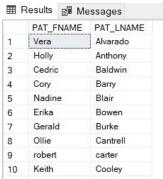


1. Write a query that displays the book title, cost, and year of publications for every book in the system. Sort the results by book title.



SELECT BOOK_TITLE, BOOK_COST, BOOK_YEAR FROM BOOK ORDER BY BOOK_TITLE;

2. Write a query that displays the first and last name of every patron and last name of every patron?



SELECT PAT_FNAME, PAT_LNAME
FROM PATRON
ORDER BY UPPER(PAT_LNAME), UPPER(PAT_FNAME);

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

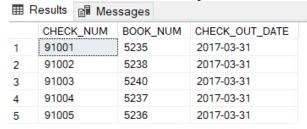


SELECT BOOK_NUM, BOOK_TITLE AS TITLE, BOOK_SUBJECT AS "Subject of Book"

FROM BOOK

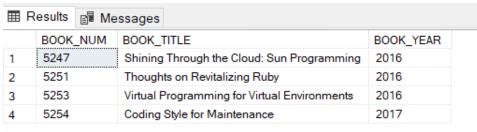
ORDER BY BOOK_NUM;

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

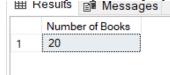


SELECT CHECK_NUM, BOOK_NUM, CHECK_OUT_DATE FROM CHECKOUT
WHERE CHECK_OUT_DATE < '2017-04-05'
ORDER BY CHECK_NUM;

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

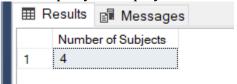


SELECT BOOK_NUM, BOOK_TITLE, BOOK_YEAR
FROM BOOK
WHERE BOOK_YEAR > 2015 AND BOOK_SUBJECT = 'Programming'
ORDER BY BOOK NUM:



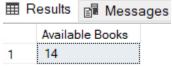
SELECT Count(BOOK_NUM) AS "Number of Books" FROM BOOK;

7. Write a query to display the number of different book subjects in the FACT system.



SELECT Count(DISTINCT BOOK_SUBJECT) AS "Number of Subjects" FROM BOOK;

8. Write a query to display the number of books that are available (not checked out)



SELECT Count(BOOK_NUM) AS "Available Books" FROM BOOK
WHERE PAT ID IS NULL;

9. Write a query to display the author ID, first and last name, book number, and book title of all books in the subject "Cloud." Sort the results by book title and then by author last name. Output should look like the following:

4	au_id numeric (7)	au_fname character varying (30)	au_Iname character varying (30)	book_num numeric (10)	book_title character varying (120)
1	251	Hugo	Bruer	5246	Capture the Cloud
2	262	Xia	Chiang	5244	Cloud-based Mobile Applica
3	284	Trina	Tankersly	5244	Cloud-based Mobile Applica
4	383	Neal	Walsh	5236	Database in the Cloud
5	262	Xia	Chiang	5249	Starlight Applications

SELECT AUTHOR.AU_ID, AU_FNAME, AU_LNAME, BOOK.BOOK_NUM, BOOK_TITLE FROM AUTHOR JOIN WRITES ON AUTHOR.AU_ID = WRITES.AU_ID JOIN BOOK ON WRITES.BOOK_NUM = BOOK.BOOK_NUM

WHERE BOOK_SUBJECT = 'Cloud'
ORDER BY BOOK_TITLE, AU_LNAME;

10. Write a query to display the book number, title, and number of times each book has been checked out. Limit the results to books that have been checked out more than five times. Sort the results in descending order by the number of times checked out and then by title.

4	book_num numeric (10)	book_title character varying (120)	Times Checked Out bigint
1	5236	Database in the Cloud	12
2	5235	Beginner's Guide to JAVA	9
3	5240	iOS Programming	7
4	5238	Conceptual Programming	6

SELECT BOOK.BOOK_NUM, BOOK_TITLE, AU_LNAME, AU_FNAME, PATRON.PAT_ID, PAT_LNAME, PAT_TYPE FROM BOOK
JOIN PATRON ON BOOK.PAT_ID = PATRON.PAT_ID
JOIN WRITES ON BOOK.BOOK_NUM = WRITES.BOOK_NUM
JOIN AUTHOR ON WRITES.AU_ID = AUTHOR.AU_ID
ORDER BY BOOK_TITLE;