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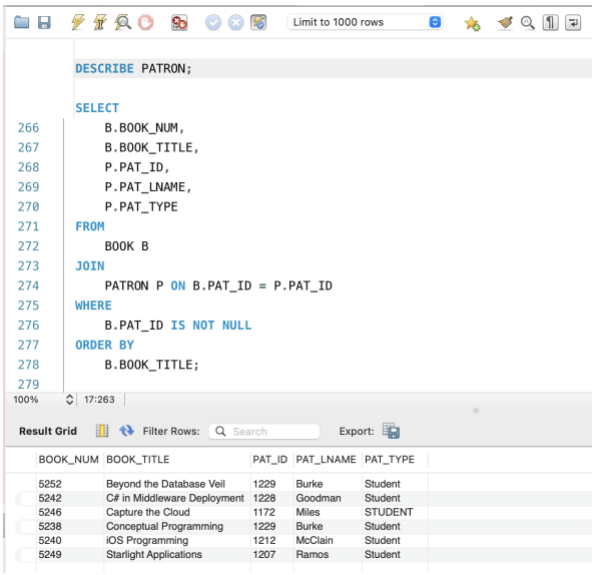
Task 6.1P: Report with SQLs and Output

1.



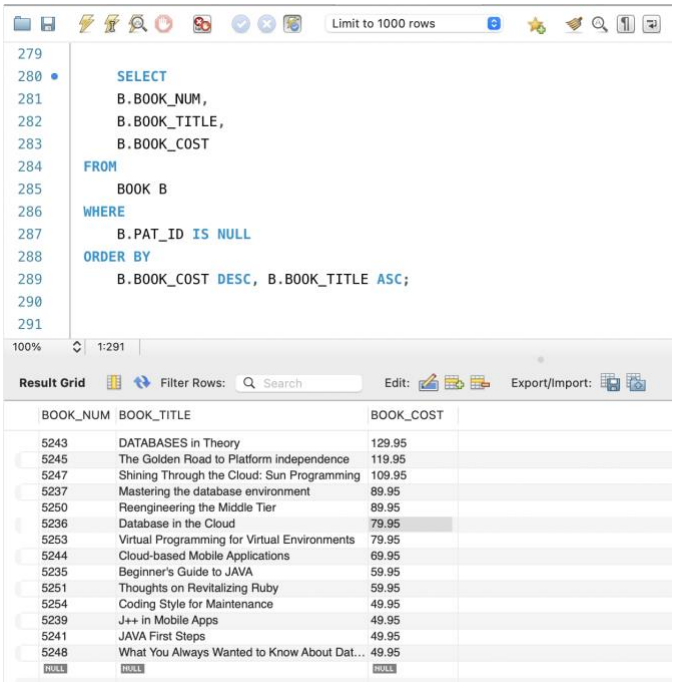
```
DESCRIBE PATRON;

SELECT
    B.BOOK_NUM,
    B.BOOK_TITLE,
    P.PAT_ID,
    P.PAT_LNAME,
    P.PAT_TYPE
FROM
    BOOK B
JOIN
    PATRON P ON B.PAT_ID = P.PAT_ID
WHERE
    B.PAT_ID IS NOT NULL
ORDER BY
    B.BOOK_TITLE;
```

Result Grid

BOOK_NUM	BOOK_TITLE	PAT_ID	PAT_LNAME	PAT_TYPE
5252	Beyond the Database Veil	1229	Burke	Student
5242	C# in Middleware Deployment	1228	Goodman	Student
5246	Capture the Cloud	1172	Miles	STUDENT
5238	Conceptual Programming	1229	Burke	Student
5240	iOS Programming	1212	McClain	Student
5249	Starlight Applications	1207	Ramos	Student

2.

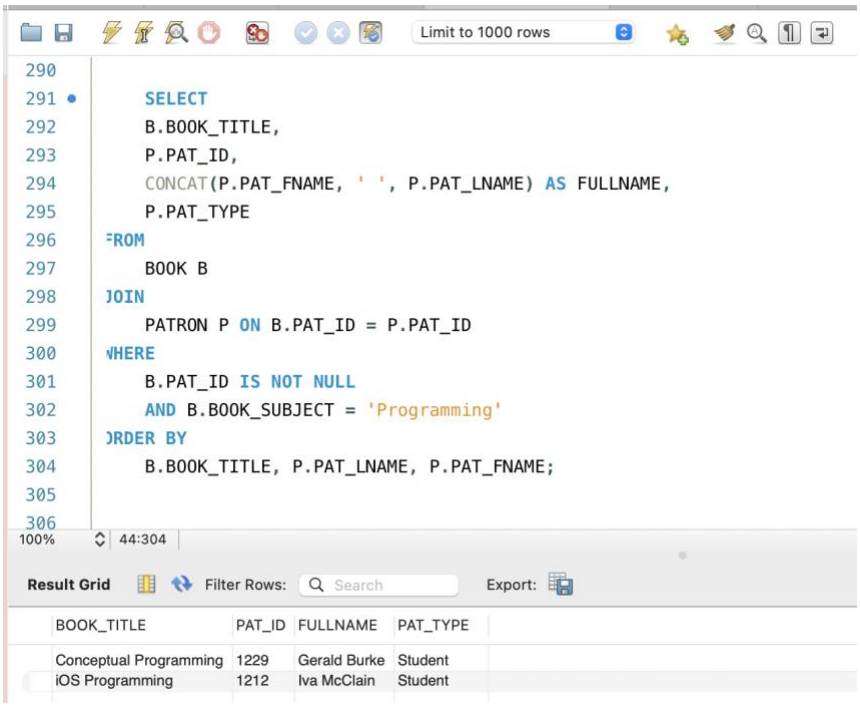


```
    SELECT
    B.BOOK_NUM,
    B.BOOK_TITLE,
    B.BOOK_COST
FROM
    BOOK B
WHERE
    B.PAT_ID IS NULL
ORDER BY
    B.BOOK_COST DESC, B.BOOK_TITLE ASC;
```

Result Grid

BOOK_NUM	BOOK_TITLE	BOOK_COST
5243	DATABASES in Theory	129.95
5245	The Golden Road to Platform independence	119.95
5247	Shining Through the Cloud: Sun Programming	109.95
5237	Mastering the database environment	89.95
5250	Reengineering the Middle Tier	89.95
5236	Database in the Cloud	79.95
5253	Virtual Programming for Virtual Environments	79.95
5244	Cloud-based Mobile Applications	69.95
5235	Beginner's Guide to JAVA	59.95
5251	Thoughts on Revitalizing Ruby	59.95
5254	Coding Style for Maintenance	49.95
5239	J++ in Mobile Apps	49.95
5241	JAVA First Steps	49.95
5248	What You Always Wanted to Know About Dat...	49.95
NULL	NULL	NULL

3.



```
290
291 •   SELECT
292     B.BOOK_TITLE,
293     P.PAT_ID,
294     CONCAT(P.PAT_FNAME, ' ', P.PAT_LNAME) AS FULLNAME,
295     P.PAT_TYPE
296 FROM
297     BOOK B
298 JOIN
299     PATRON P ON B.PAT_ID = P.PAT_ID
300 WHERE
301     B.PAT_ID IS NOT NULL
302     AND B.BOOK_SUBJECT = 'Programming'
303 ORDER BY
304     B.BOOK_TITLE, P.PAT_LNAME, P.PAT_FNAME;
305
306
```

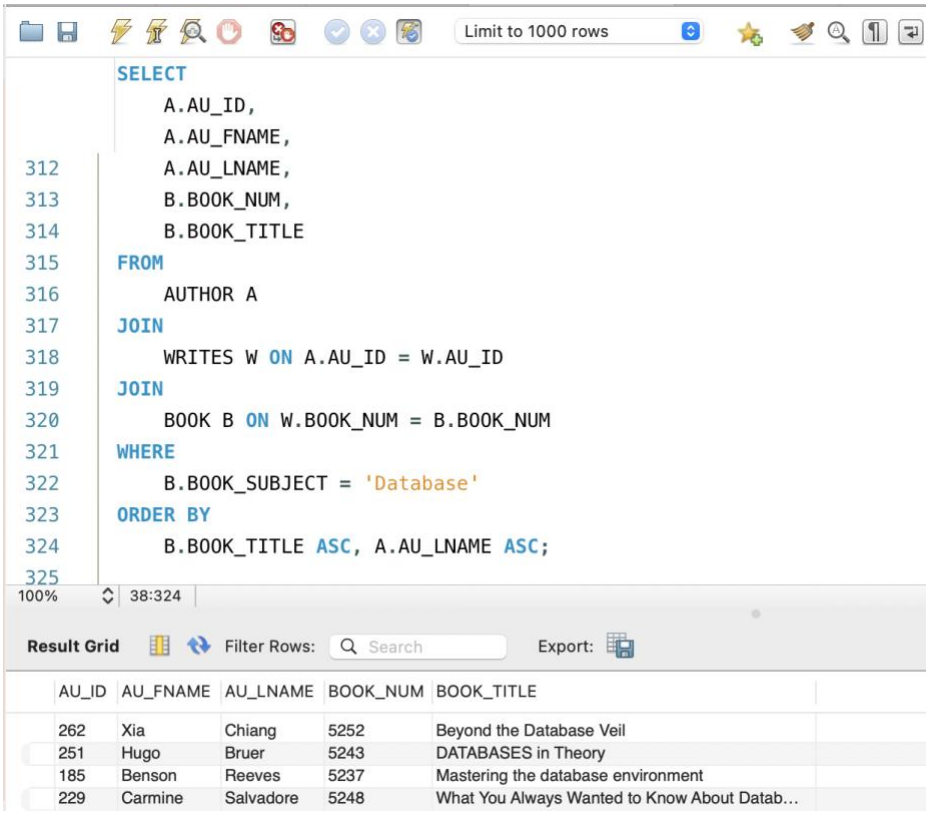
Limit to 1000 rows

100% 44:304

Result Grid Filter Rows: Search Export:

BOOK_TITLE	PAT_ID	FULLNAME	PAT_TYPE
Conceptual Programming	1229	Gerald Burke	Student
iOS Programming	1212	Iva McClain	Student

4.



```
SELECT
    A.AU_ID,
    A.AU_FNAME,
312     A.AU_LNAME,
313     B.BOOK_NUM,
314     B.BOOK_TITLE
315 FROM
316     AUTHOR A
317 JOIN
318     WRITES W ON A.AU_ID = W.AU_ID
319 JOIN
320     BOOK B ON W.BOOK_NUM = B.BOOK_NUM
321 WHERE
322     B.BOOK_SUBJECT = 'Database'
323 ORDER BY
324     B.BOOK_TITLE ASC, A.AU_LNAME ASC;
325
```

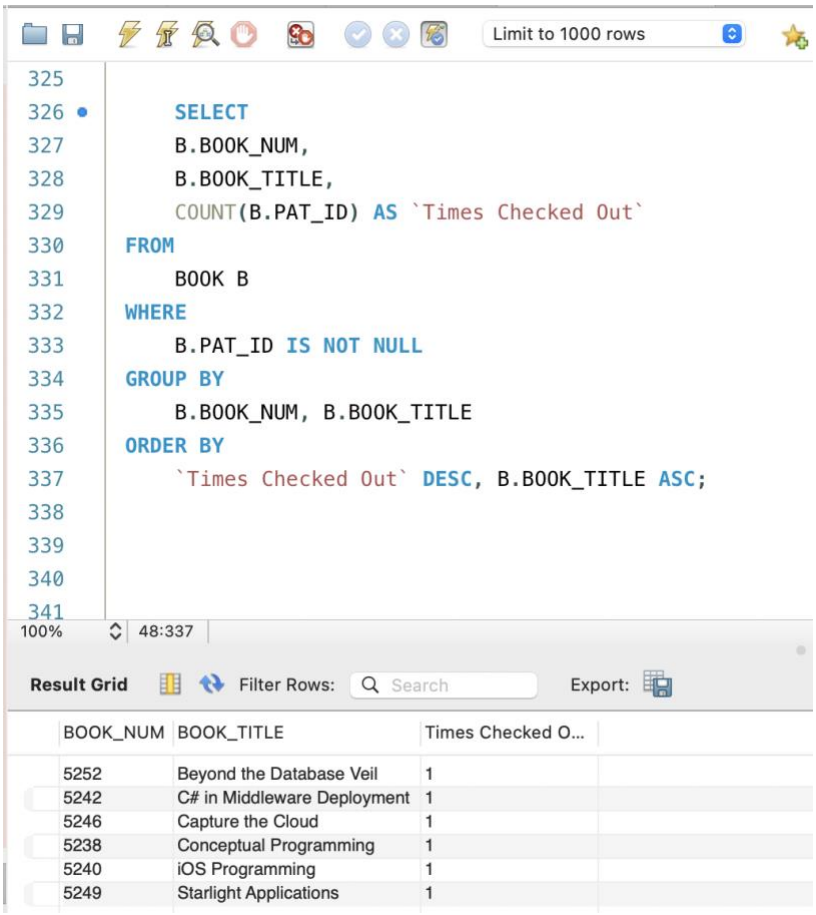
Limit to 1000 rows

100% 38:324

Result Grid Filter Rows: Search Export:

AU_ID	AU_FNAME	AU_LNAME	BOOK_NUM	BOOK_TITLE
262	Xia	Chiang	5252	Beyond the Database Veil
251	Hugo	Bruer	5243	DATABASES in Theory
185	Benson	Reeves	5237	Mastering the database environment
229	Carmine	Salvadore	5248	What You Always Wanted to Know About Datab…

5.

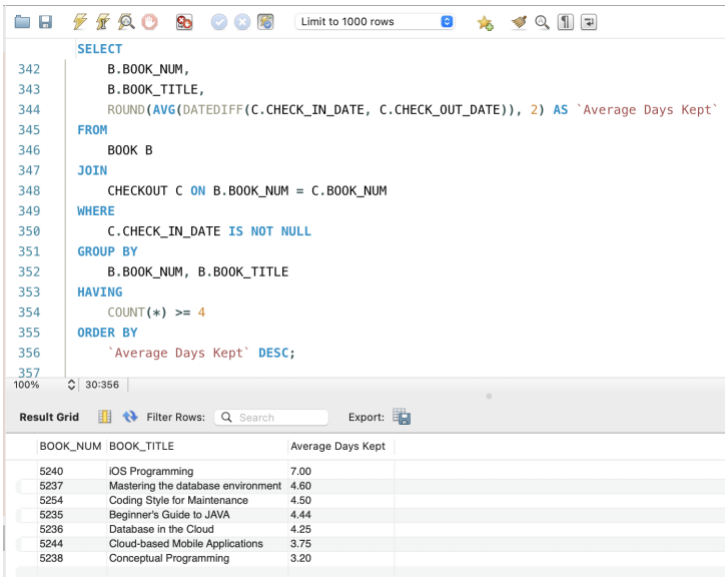


```
325
326     SELECT
327     B.BOOK_NUM,
328     B.BOOK_TITLE,
329     COUNT(B.PAT_ID) AS `Times Checked Out`
330 FROM
331     BOOK B
332 WHERE
333     B.PAT_ID IS NOT NULL
334 GROUP BY
335     B.BOOK_NUM, B.BOOK_TITLE
336 ORDER BY
337     `Times Checked Out` DESC, B.BOOK_TITLE ASC;
338
339
340
341
```

Result Grid

BOOK_NUM	BOOK_TITLE	Times Checked O...
5252	Beyond the Database Veil	1
5242	C# in Middleware Deployment	1
5246	Capture the Cloud	1
5238	Conceptual Programming	1
5240	iOS Programming	1
5249	Starlight Applications	1

6.



```
342     B.BOOK_NUM,
343     B.BOOK_TITLE,
344     ROUND(AVG(DATEDIFF(C.CHECK_IN_DATE, C.CHECK_OUT_DATE)), 2) AS `Average Days Kept`
345 FROM
346     BOOK B
347 JOIN
348     CHECKOUT C ON B.BOOK_NUM = C.BOOK_NUM
349 WHERE
350     C.CHECK_IN_DATE IS NOT NULL
351 GROUP BY
352     B.BOOK_NUM, B.BOOK_TITLE
353 HAVING
354     COUNT(*) >= 4
355 ORDER BY
356     `Average Days Kept` DESC;
357
```

Result Grid

BOOK_NUM	BOOK_TITLE	Average Days Kept
5240	iOS Programming	7.00
5237	Mastering the database environment	4.60
5254	Coding Style for Maintenance	4.50
5235	Beginner's Guide to JAVA	4.44
5236	Database in the Cloud	4.25
5244	Cloud-based Mobile Applications	3.75
5238	Conceptual Programming	3.20