WEEK-5 DBMS LAB

Consider the following database of student enrollment in courses and books adopted for each course.

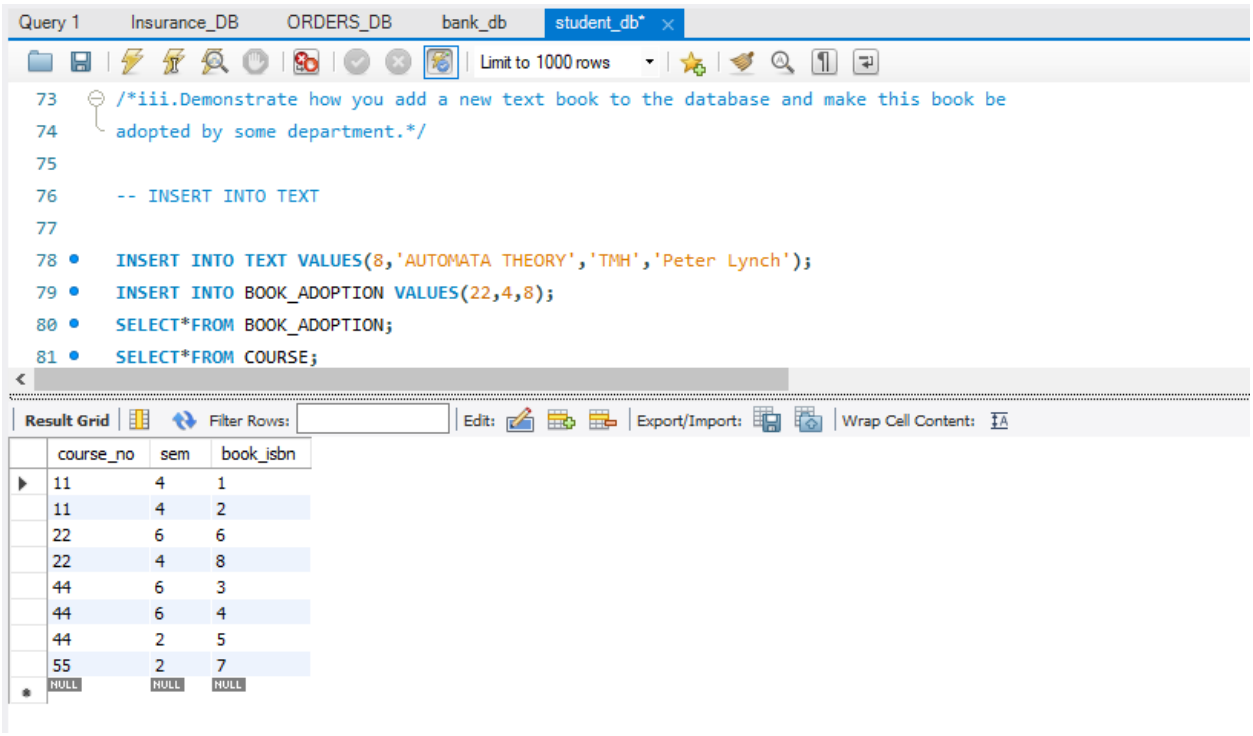
STUDENT (regno: String, name: String, major: String, bdate: date)
COURSE (course #: int, cname: String, dept: String)
ENROLL (regno: String, cname: String, sem: int, marks: int)
BOOK_ADOPTION (course #: int, sem: int, book-ISBN: int)
TEXT(book-ISBN:int, book-title: String, publisher:String, author:String)

i. **Create the above tables by properly specifying the primary keys and the foreign keys.**
ii. **Enter at least five tuples for each relation.**
iii. **Demonstrate how you add a new text book to the database and make this book be adopted by some department.**
iv. **Produce a list of text books (include Course #, Book-ISBN, Book-title) in the alphabetical order for courses offered by the 'CS' department that use more than two books.**
v. **List any department that has *all* its adopted books published by a specific publisher.**

OUTPUT:

i.Create the above tables by properly specifying the primary keys and the foreign keys.

ii.Enter at least five tuples for each relation.



course_no	sem	book_isbn
11	4	1
11	4	2
22	6	6
22	4	8
44	6	3
44	6	4
44	2	5
55	2	7
NULL	NULL	NULL

Query 1 | Insurance_DB | ORDERS_DB | bank_db | student_db*

Limit to 1000 rows

```
74      adopted by some department.*/
75
76      -- INSERT INTO TEXT
77
78  •   INSERT INTO TEXT VALUES(8,'AUTOMATA THEORY','TMH','Peter Lynch');
79  •   INSERT INTO BOOK_ADOPTION VALUES(22,4,8);
80  •   SELECT*FROM BOOK_ADOPTION;
81  •   SELECT*FROM COURSE;
82  •   SELECT*FROM ENROLL;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

course_no	c_name	dept
11	DS	CS
22	USP	IS
33	SNS	EC
44	DBMS	CS
55	EC	TC
NULL	NULL	NULL

Query 1 | Insurance_DB | ORDERS_DB | bank_db | student_db*

Limit to 1000 rows

```
80  •   SELECT*FROM BOOK_ADOPTION;
81  •   SELECT*FROM COURSE;
82  •   SELECT*FROM ENROLL;
83  •   SELECT*FROM STUDENT;
84  •   SELECT*FROM TEXT;
85
86      /*iv.Produce a list of text books (include Course #, Book-ISBN, Book-title) in the alphabetical order for courses of
87
88  •   SELECT C.COURSE NO,BA.BOOK ISBN, TB.BOOK TITLE FROM COURSE C, BOOK ADOPTION BA,TEXT TB
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

regno	course_no	sem	marks
CS01	11	4	85
CS03	44	6	75
EC03	33	2	80
IS02	22	6	80
TC05	55	2	8
NULL	NULL	NULL	NULL

Query 1 | Insurance_DB | ORDERS_DB | bank_db | student_db*

Limit to 1000 rows

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Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

regno	s_name	major	bdate
CS01	RAM	DS	12-MAR-86
CS03	SNEHA	DBMS	01-JAN-87
EC03	AHMED	SNS	17-APR-85
IS02	SMITH	USP	23-DEC-87
TC05	AKHILA	EC	06-OCT-86
NULL	NULL	NULL	NULL

Query 1 | Insurance_DB | ORDERS_DB | bank_db | student_db*

Limit to 1000 rows

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80  SELECT*FROM BOOK_ADOPTION;
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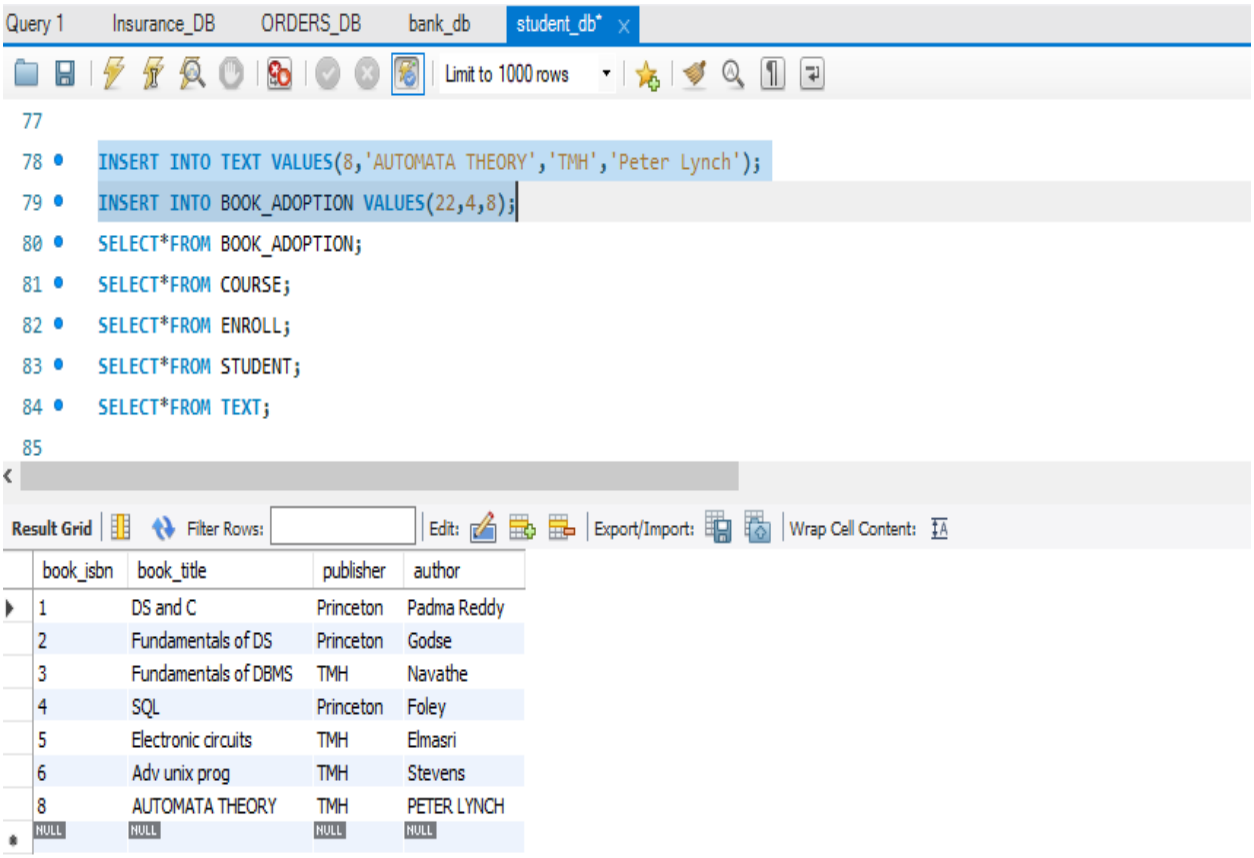
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

book_isbn	book_title	publisher	author
1	DS and C	Princeton	Padma Reddy
2	Fundamentals of DS	Princeton	Godse
3	Fundamentals of DBMS	TMH	Navathe
4	SQL	Princeton	Foley
5	Electronic circuits	TMH	Elmasri
6	Adv unix prog	TMH	Stevens
8	AUTOMATA THEORY	TMH	PETER LYNCH
NULL	NULL	NULL	NULL

iii.Demonstrate how you add a new text book to the database and make this book be adopted by some department.



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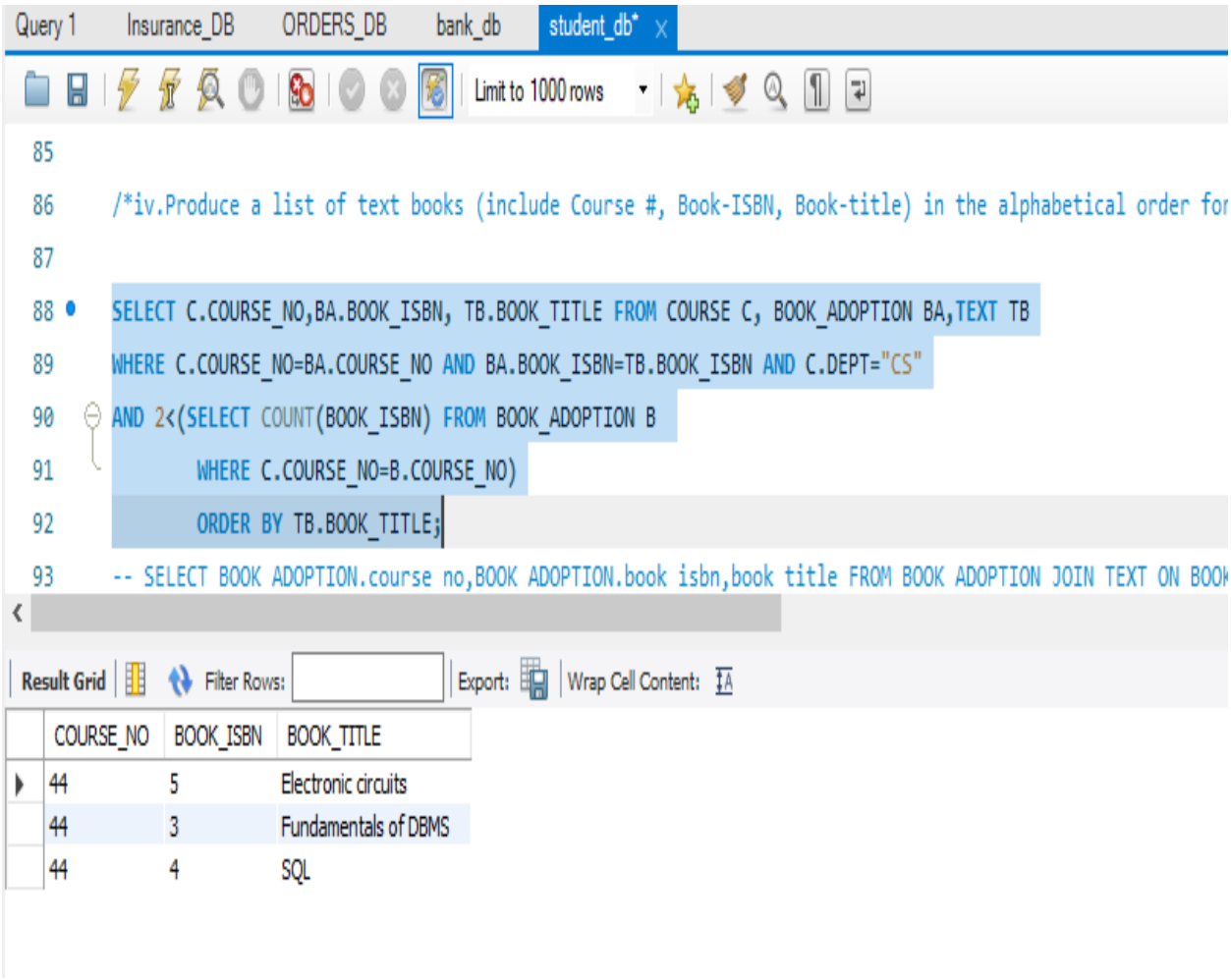
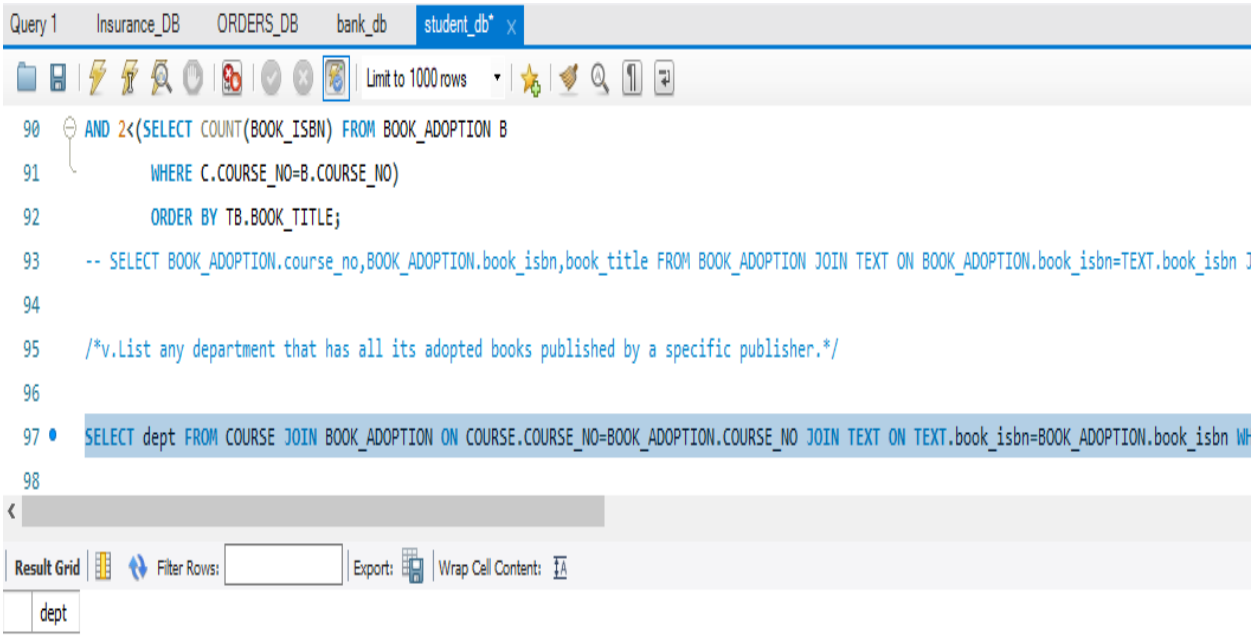


v.List any department that has *all* its adopted books published by a specific publisher.



*************LAB 5 ENDS****************