

STUDENT ENROLLMENT DATABASE

STUDENT Table:

Field	Type	Null	Key	Default	Extra
regno	varchar(30)	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
major	varchar(30)	YES		NULL	
bdate	date	YES		NULL	

STUDENT Table VALUES:

regno	name	major	bdate
1BM19CS400	Abhishek	sr	1993-04-13
1BM19CS401	Arbaz	sr	1993-11-27
1BM19CS402	Chirag	jr	1994-08-24
1BM19CS404	Md	sr	1993-09-24
NULL	NULL	NULL	NULL

COURSE Table:

Field	Type	Null	Key	Default	Extra
courseno	int	NO	PRI	NULL	
cname	varchar(20)	YES		NULL	
dept	varchar(20)	YES		NULL	

COURSE Table VALUES:

courseno	cname	dept
111	OS	CSE
112	TFCS	CSE
113	ADA	ISE
114	DBMS	CSE
115	C	ECE
NULL	NULL	NULL

ENROLL Table:

Field	Type	Null	Key	Default	Extra
regno	varchar(15)	NO	PRI	NULL	
courseno	int	NO	PRI	NULL	
sem	int	YES		NULL	
marks	int	YES		NULL	

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ENROLL Table VALUES:

regno	courseno	sem	marks
1BM19CS400	111	5	100
1BM19CS401	113	5	100
1BM19CS402	112	3	100
1BM19CS404	114	5	100
NULL	NULL	NULL	NULL

BOOK ADOPTION Tables:

Field	Type	Null	Key	Default	Extra
courseno	int	NO	PRI	NULL	
sem	int	YES		NULL	
book_jsbn	int	NO	PRI	NULL	

BOOK ADOPTION Table VALUES:

courseno	sem	book_jsbn
111	5	900
111	5	903
111	5	904
112	3	901
113	3	10
113	5	902
114	5	905
115	3	906
NULL	NULL	NULL

TEXT Table:

Field	Type	Null	Key	Default	Extra
book_jsbn	int	NO	PRI	NULL	
book_title	varchar(20)	YES		NULL	
publisher	varchar(20)	YES		NULL	
author	varchar(20)	YES		NULL	

TEXT Table VALUES:

book_jsbn	book_title	publisher	author
10	DATABASE SYSTEMS	PEARSON	SCHILD
900	OPERATING SYS	PEARSON	LELAND
901	CIRCUITS	HALL INDIA	BOB
902	SYSTEM SOFTWARE	PETERSON	JACOB
903	SCHEDULING	PEARSON	PATIL
904	DATABASE SYSTEMS	PEARSON	JACOB
905	DATABASE MANAGER	PEARSON	BOB
906	SIGNALS	HALL INDIA	SUMIT
NULL	NULL	NULL	NULL

STUDENT ENROLLMENT DATABASE

QUERIES:

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

**INSERT INTO text (book_isbn, book_title, publisher, author) VALUES (23,'ADA','PEARSON','SCHIELD');
SELECT * FROM TEXT;**

book_isbn	book_title	publisher	author
10	DATABASE SYSTEMS	PEARSON	SCHIELD
23	ADA	PEARSON	SCHIELD
900	OPERATING SYS	PEARSON	LELAND
901	CIRCUITS	HALL INDIA	BOB
902	SYSTEM SOFTWARE	PETERSON	JACOB
903	SCHEDULING	PEARSON	PATIL
904	DATABASE SYSTEMS	PEARSON	JACOB
905	DATABASE MANAGER	PEARSON	BOB
906	SIGNALS	HALL INDIA	SUMIT
NULL	NULL	NULL	NULL

**INSERT INTO book_adoption (courseno,sem,book_isbn) VALUES (111,5,23);
SELECT * FROM BOOK_ADOPTION;**

courseno	sem	book_isbn
111	5	23
111	5	900
111	5	903
111	5	904
112	3	901
113	3	10
113	5	902
114	5	905
115	3	906
NULL	NULL	NULL

02. 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.

STUDENT ENROLLMENT DATABASE

```
SELECT c.courseno,t.book_isbn,t.book_title
FROM course c,book_adoption ba,text t
WHERE c.courseno=ba.courseno
AND ba.book_isbn=t.book_isbn
AND c.dept='CSE'
AND 2<(
SELECT COUNT(book_isbn)
FROM book_adoption b
WHERE c.courseno=b.courseno)
ORDER BY t.book_title;
```

courseno	book_isbn	book_title
111	23	ADA
111	904	DATABASE SYSTEMS
111	900	OPERATING SYS
111	903	SCHEDULING

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

```
SELECT DISTINCT c.dept FROM course c
WHERE c.dept IN ( SELECT c.dept FROM course
c,book_adoption b,text t WHERE c.courseno=b.courseno
AND t.book_isbn=b.book_isbn AND
t.publisher='PEARSON') AND c.dept NOT IN
(SELECT c.dept FROM course c,book_adoption b,text t
WHERE c.courseno=b.courseno AND
t.book_isbn=b.book_isbn AND t.publisher =
'PEARSON');
```

dept
CSE
ISE
ECE