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DBMS Lab Record (Prog. 6-10)

Lab 6

MySQL returned an empty result set (i.e. zero rows). (Query took 0.4066 seconds.)

```
CREATE TABLE SALESMAN (SALESMAN_ID INT(4), NAME VARCHAR(20), CITY VARCHAR(20), COMMISSION VARCHAR(20), PRIMARY KEY (SALESMAN_ID))
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.3470 seconds.)

```
CREATE TABLE CUSTOMER (CUSTOMER_ID INT, CUST_NAME VARCHAR(20), CITY VARCHAR(20), GRADE INT, SALESMAN_ID INT, PRIMARY KEY (CUSTOMER_ID), foreign key(SALESMAN_ID) REFERENCES SALESMAN(SALESMAN_ID) ON DELETE SET NULL)
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.4008 seconds.)

```
CREATE TABLE ORDERS (ORD_NO INT(5), PURCHASE_AMT FLOAT, ORD_DATE DATE, CUSTOMER_ID INT, SALESMAN_ID INT, PRIMARY KEY (ORD_NO), foreign key(CUSTOMER_ID) REFERENCES CUSTOMER(CUSTOMER_ID) ON DELETE CASCADE, foreign key(SALESMAN_ID) REFERENCES SALESMAN(SALESMAN_ID) ON DELETE CASCADE)
```

[Edit inline] [Edit] [Create PHP code]

SALESMAN:

		SALESMAN_ID	NAME	CITY	COMMISSION
<input type="checkbox"/>		1000	JOHN	BANGALORE	25 %
<input type="checkbox"/>		2000	RAVI	BANGALORE	20 %
<input type="checkbox"/>		3000	KUMAR	mysore	15 %
<input type="checkbox"/>		4000	SMITH	DELHI	30 %
<input type="checkbox"/>		5000	HARSHA	HYDERBAD	15 %

CUSTOMER:

		CUSTOMER_ID	CUST_NAME	CITY	GRADE	SALESMAN_ID
<input type="checkbox"/>		10	PREETHI	BANGALORE	100	1000
<input type="checkbox"/>		11	VIVEK	MANGALORE	300	1000
<input type="checkbox"/>		12	BHASKAR	CHENNAI	400	2000
<input type="checkbox"/>		13	CHETHAN	BANGALORE	200	2000
<input type="checkbox"/>		14	MAMATHA	BANGALORE	400	3000

ORDERS:

	ORD_NO	PURCHASE_AMT	ORD_DATE	CUSTOMER_ID	SALESMAN_ID
<input type="checkbox"/> Edit Copy Delete	50	5000	2017-05-04	10	1000
<input type="checkbox"/> Edit Copy Delete	51	450	2017-01-20	10	2000
<input type="checkbox"/> Edit Copy Delete	52	1000	2017-02-24	13	2000
<input type="checkbox"/> Edit Copy Delete	53	3500	2017-04-13	14	3000
<input type="checkbox"/> Edit Copy Delete	54	550	2017-03-09	12	2000

- Count the customers with grades above Bangalore's average.

Showing rows 0 - 1 (2 total, Query took 0.0722 seconds.)

```
SELECT GRADE, COUNT(DISTINCT CUSTOMER_ID) FROM CUSTOMER GROUP BY GRADE HAVING GRADE > (SELECT AVG(GRADE) FROM CUSTOMER WHERE CITY='BANGALORE')
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

GRADE	COUNT(DISTINCT CUSTOMER_ID)
300	1
400	2

- Find the name and numbers of all salesmen who had more than one customer.

Showing rows 0 - 1 (2 total, Query took 0.0468 seconds.)

```
SELECT SALESMAN_ID, NAME FROM SALESMAN A WHERE 1 < (SELECT COUNT(*) FROM CUSTOMER WHERE SALESMAN_ID=A.SALESMAN_ID)
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

SALESMAN_ID	NAME
1000	JOHN
2000	RAVI

- List all salesmen and indicate those who have and don't have customers in their cities (Use UNION OPERATION).

Showing rows 0 - 8 (9 total, Query took 0.0911 seconds.)

```
SELECT SALESMAN.SALESMAN_ID, NAME, CUST_NAME, COMMISSION FROM SALESMAN, CUSTOMER WHERE SALESMAN.CITY = CUSTOMER.CITY UNION SELECT SALESMAN_ID, NAME, 'NO MATCH', COMMISSION FROM SALESMAN WHERE NOT CITY = ANY (SELECT CITY FROM CUSTOMER) ORDER BY 2 DESC
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

SALESMAN_ID	NAME	CUST_NAME	COMMISSION
4000	SMITH	NO MATCH	30 %
2000	RAVI	PREETHI	20 %
2000	RAVI	CHETHAN	20 %
2000	RAVI	MAMATHA	20 %
3000	KUMAR	NO MATCH	15 %
1000	JOHN	PREETHI	25 %
1000	JOHN	CHETHAN	25 %
1000	JOHN	MAMATHA	25 %
5000	HARSHA	NO MATCH	15 %

- Create a view that finds the salesman who has the customer with the highest order of a day.

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.1604 seconds.)

```
CREATE VIEW ELITSALESMAN AS SELECT B.ORD_DATE, A.SALESMAN_ID, A.NAME FROM SALESMAN A, ORDERS B WHERE A.SALESMAN_ID = B.SALESMAN_ID AND B.PURCHASE_AMT=(SELECT MAX(PURCHASE_AMT) FROM ORDERS C WHERE C.ORD_DATE = B.ORD_DATE)
```

[Edit inline] [Edit] [Create PHP code]

	ORD_DATE	SALESMAN_ID	NAME
<input type="checkbox"/>	Edit Copy Delete	2017-05-04	1000 JOHN
<input type="checkbox"/>	Edit Copy Delete	2017-01-20	2000 RAVI
<input type="checkbox"/>	Edit Copy Delete	2017-02-24	2000 RAVI
<input type="checkbox"/>	Edit Copy Delete	2017-04-13	3000 KUMAR
<input type="checkbox"/>	Edit Copy Delete	2017-03-09	2000 RAVI

- Demonstrate the DELETE operation by removing salesman with id 1000. All his orders must also be deleted.

✓ 1 row affected. (Query took 0.1591 seconds.)

```
DELETE FROM SALESMAN WHERE SALESMAN_ID=1000
```

[Edit inline] [Edit] [Create PHP code]

✓ Showing rows 0 - 3 (4 total, Query took 0.0025 seconds.)

```
select * from salesman
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

<input type="checkbox"/> Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None
+ Options						
<input type="checkbox"/>	Edit Copy Delete	2000	RAVI	BANGALORE	20 %	
<input type="checkbox"/>	Edit Copy Delete	3000	KUMAR	MYSORE	15 %	
<input type="checkbox"/>	Edit Copy Delete	4000	SMITH	DELHI	30 %	
<input type="checkbox"/>	Edit Copy Delete	5000	HARSHA	HYDERBAD	15 %	

Lab 7

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2438 seconds.)

```
CREATE TABLE author( author_id INT, author_name VARCHAR(20), author_city VARCHAR(20), author_country VARCHAR(20), PRIMARY KEY(author_id))
```

[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2860 seconds.)

```
CREATE TABLE publisher ( publisher_id INT, publisher_name VARCHAR(20), publisher_city VARCHAR(20), publisher_country VARCHAR(20), PRIMARY KEY(publisher_id))
```

[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.3324 seconds.)

```
CREATE TABLE category ( category_id INT, description VARCHAR(30), PRIMARY KEY(category_id) )
```

[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.8340 seconds.)

```
CREATE TABLE catalogue( book_id INT, book_title VARCHAR(30), author_id INT, publisher_id INT, category_id INT, year INT, price INT, PRIMARY KEY(book_id), FOREIGN KEY(author_id) REFERENCES author(author_id), FOREIGN KEY(publisher_id) REFERENCES publisher(publisher_id), FOREIGN KEY(category_id) REFERENCES category(category_id) )
```

[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.3106 seconds.)

```
CREATE TABLE orderdetails( order_id INT, book_id INT, quantity INT, PRIMARY KEY(order_id), FOREIGN KEY(book_id) REFERENCES catalogue(book_id))
```

[Edit inline] [Edit] [Create PHP code]

AUTHOR:

	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	author_id	author_name	author_city	author_country
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1001	JK Rowling	London	England
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1002	Chetan Bhagat	Mumbai	India
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1003	John McCarthy	Chicago	USA
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1004	Dan Brown	California	USA

PUBLISHER:

	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	publisher_id	publisher_name	publisher_city	publisher_country
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2001	Bloomsbury	London	England
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2002	Scholastic	Washington	USA
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2003	Pearson	London	England
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2004	Rupa	Delhi	India

CATEGORY:

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	category_id	description
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3001	Fiction
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3002	Non-Fiction
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3003	thriller
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3004	action
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3005	fiction

CATALOG:

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	book_id	book_title	author_id	publisher_id	category_id	year	price
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4001	HP and Goblet Of Fire	1001	2001	3001	2002	600
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4002	HP and Order Of Phoenix	1001	2002	3001	2005	650
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4003	Two States	1002	2004	3001	2009	65
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4004	3 Mistakes of my life	1002	2004	3001	2007	55
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4005	Da Vinci Code	1004	2003	3001	2004	450
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4006	Angels and Demons	1004	2003	3001	2003	350
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4007	Artificial Intelligence	1003	2002	3002	1970	500

ORDERDETAILS:

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	order_id	book_id	quantity
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5001	4001	5
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5002	4002	7
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5003	4003	15
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5004	4004	11
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5005	4005	9
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5006	4006	8
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5007	4007	2
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5008	4004	3

- Give the details of the authors who have 2 or more books in the catalog and the price of the books is greater than the average price of the books in the catalog and the year of publication is after 2000.

Showing rows 0 - 0 (1 total, Query took 0.0169 seconds.)

```
SELECT * FROM author WHERE author_id IN (SELECT author_id FROM catalogue WHERE year>2000 AND price>(SELECT AVG(price) FROM catalogue) GROUP BY author_id HAVING COUNT(*)>1)
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	author_id	author_name	author_city	author_country
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1001	JK Rowling	London	England

- Find the author of the book which has maximum sales.

```
Showing rows 0 - 0 (1 total, Query took 0.0438 seconds.)
```

```
SELECT author_name FROM author a,catalogue c WHERE a.author_id=c.author_id AND book_id IN (SELECT book_id FROM orderdetails WHERE quantity=(SELECT MAX(quantity) FROM orderdetails))
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

author_name

Chetan Bhagat

- Demonstrate how you increase the price of books published by a specific publisher by 10%.

```
2 rows affected. (Query took 0.0903 seconds.)
```

```
UPDATE catalogue SET price=1.1*price WHERE publisher_id IN (SELECT publisher_id FROM publisher WHERE publisher_name='pearson')
```

[Edit inline] [Edit] [Create PHP code]

	book_id	book_title	author_id	publisher_id	category_id	year	price
<input type="checkbox"/>   	4001	HP and Goblet Of Fire	1001	2001	3001	2002	600
<input type="checkbox"/>   	4002	HP and Order Of Phoenix	1001	2002	3001	2005	650
<input type="checkbox"/>   	4003	Two States	1002	2004	3001	2009	65
<input type="checkbox"/>   	4004	3 Mistakes of my life	1002	2004	3001	2007	55
<input type="checkbox"/>   	4005	Da Vinci Code	1004	2003	3001	2004	545
<input type="checkbox"/>   	4006	Angels and Demons	1004	2003	3001	2003	424
<input type="checkbox"/>   	4007	Artificial Intelligence	1003	2002	3002	1970	500

Lab 8

MySQL returned an empty result set (i.e. zero rows). (Query took 0.4226 seconds.)

```
CREATE TABLE student( regno VARCHAR(15), name VARCHAR(20), major VARCHAR(20), bdate DATE, PRIMARY KEY (regno) )
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.4287 seconds.)

```
CREATE TABLE course( courseno INT, cname VARCHAR(20), dept VARCHAR(20), PRIMARY KEY (courseno) )
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.2584 seconds.)

```
CREATE TABLE enroll( regno VARCHAR(15), courseno INT, sem INT(3), marks INT(4), PRIMARY KEY (regno,courseno), FOREIGN KEY (regno) REFERENCES student (regno), FOREIGN KEY (courseno) REFERENCES course (courseno) )
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.2279 seconds.)

```
CREATE TABLE text( book_isbn INT(5), book_title VARCHAR(20), publisher VARCHAR(20), author VARCHAR(20), PRIMARY KEY (book_isbn) )
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.6688 seconds.)

```
CREATE TABLE book_adoption( courseno INT, sem INT(3), book_isbn INT(5), PRIMARY KEY (courseno,book_isbn), FOREIGN KEY (courseno) REFERENCES course (courseno), FOREIGN KEY (book_isbn) REFERENCES text(book_isbn) )
```

[Edit inline] [Edit] [Create PHP code]

STUDENT:

	<input type="button" value="←"/>	<input type="button" value="→"/>		regno	name	major	bdate
<input type="checkbox"/>				1pe11cs001	a	sr	1993-12-30
<input type="checkbox"/>				1pe11cs002	b	sr	1993-09-24
<input type="checkbox"/>				1pe11cs003	c	sr	1993-11-27
<input type="checkbox"/>				1pe11cs004	d	sr	1993-04-13
<input type="checkbox"/>				1pe11cs005	e	jr	1994-08-24

COURSE:

	<input type="button" value="←"/>	<input type="button" value="→"/>		courseno	cname	dept
Click the drop-down arrow to toggle column's visibility.						
<input type="checkbox"/>				111	OS	CSE
<input type="checkbox"/>				112	EC	CSE
<input type="checkbox"/>				113	SS	ISE
<input type="checkbox"/>				114	DBMS	CSE
<input type="checkbox"/>				115	SIGNALS	ECE

ENROLL:

	regno	courseno	sem	marks
<input type="checkbox"/>	Edit Copy Delete 1pe11cs001	115	3	100
<input type="checkbox"/>	Edit Copy Delete 1pe11cs002	114	5	100
<input type="checkbox"/>	Edit Copy Delete 1pe11cs003	113	5	100
<input type="checkbox"/>	Edit Copy Delete 1pe11cs004	111	5	100
<input type="checkbox"/>	Edit Copy Delete 1pe11cs005	112	3	100

TEXT:

	book_isbn	book_title	publisher	author
<input type="checkbox"/>	Edit Copy Delete 10	DATABASE SYSTEMS	PEARSON	SCHIELD
<input type="checkbox"/>	Edit Copy Delete 900	OPERATING SYS	PEARSON	LELAND
<input type="checkbox"/>	Edit Copy Delete 901	CIRCUITS	HALL INDIA	BOB
<input type="checkbox"/>	Edit Copy Delete 902	SYSTEM SOFTWARE	PETERSON	JACOB
<input type="checkbox"/>	Edit Copy Delete 903	SCHEDULING	PEARSON	PATIL
<input type="checkbox"/>	Edit Copy Delete 904	DATABASE SYSTEMS	PEARSON	JACOB
<input type="checkbox"/>	Edit Copy Delete 905	DATABASE MANAGER	PEARSON	BOB
<input type="checkbox"/>	Edit Copy Delete 906	SIGNALS	HALL INDIA	SUMIT

BOOK_ADOPTION:

	courseno	sem	book_isbn
<input type="checkbox"/>	Click the drop-down arrow to toggle column's visibility.	111	5
<input type="checkbox"/>	Edit Copy Delete 900	111	5
<input type="checkbox"/>	Edit Copy Delete 903	111	5
<input type="checkbox"/>	Edit Copy Delete 904	111	5
<input type="checkbox"/>	Edit Copy Delete 901	112	3
<input type="checkbox"/>	Edit Copy Delete 10	113	3
<input type="checkbox"/>	Edit Copy Delete 902	113	5
<input type="checkbox"/>	Edit Copy Delete 905	114	5
<input type="checkbox"/>	Edit Copy Delete 906	115	3

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

✓ 1 row inserted. (Query took 0.1060 seconds.)

INSERT INTO TEXT VALUES(907, 'ANALYSIS AND DESIGN OF ALGORITHMS', 'PEARSON', 'PATIL')

[Edit inline] [Edit] [Create PHP code]

	<input type="button" value="←"/> <input type="button" value="→"/>		book_isbn	book_title	publisher	author
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10	DATABASE SYSTEMS	PEARSON
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	900	OPERATING SYS	PEARSON
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	901	CIRCUITS	HALL INDIA BOB
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	902	SYSTEM SOFTWARE	PETERSON JACOB
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	903	SCHEDULING	PEARSON PATIL
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	904	DATABASE SYSTEMS	PEARSON
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	905	DATABASE MANAGER	PEARSON BOB
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	906	SIGNALS	HALL INDIA SUMIT
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	907	ANALYSIS AND DESIGN	PEARSON
						PATIL

- 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.

Showing rows 0 - 2 (3 total, Query took 0.0089 seconds.) [book_title: DATABASE SYSTEMS... - SCHEDULING...]

```
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
```

Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

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

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

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0160 seconds.)

```
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')
```

Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

dept

dept
CSE

Lab 9

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2373 seconds.)

```
CREATE TABLE ACTOR ( ACT_ID INT (3), ACT_NAME VARCHAR (20), ACT_GENDER CHAR (1), PRIMARY KEY (ACT_ID))
```

[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2213 seconds.)

```
CREATE TABLE DIRECTOR ( DIR_ID INT (3), DIR_NAME VARCHAR (20), DIR_PHONE INT (10), PRIMARY KEY (DIR_ID))
```

[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.5169 seconds.)

```
CREATE TABLE MOVIES ( MOV_ID INT (4), MOV_TITLE VARCHAR (25), MOV_YEAR INT (4), MOV_LANG VARCHAR (12), DIR_ID INT (3), PRIMARY KEY (MOV_ID), FOREIGN KEY (DIR_ID) REFERENCES DIRECTOR (DIR_ID))
```

[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2684 seconds.)

```
CREATE TABLE MOVIE_CAST ( ACT_ID INT (3), MOV_ID INT (4), ROLE VARCHAR(10), PRIMARY KEY (ACT_ID, MOV_ID), FOREIGN KEY (ACT_ID) REFERENCES ACTOR (ACT_ID), FOREIGN KEY (MOV_ID) REFERENCES MOVIES (MOV_ID))
```

[Edit inline] [Edit] [Create PHP code]

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.2547 seconds.)

```
CREATE TABLE RATING ( MOV_ID INT (4), REV_STARS VARCHAR (25), PRIMARY KEY (MOV_ID), FOREIGN KEY (MOV_ID) REFERENCES MOVIES (MOV_ID))
```

[Edit inline] [Edit] [Create PHP code]

ACTOR:

	← T →	▼	ACT_ID	ACT_NAME	ACT_GENDER				
<input type="checkbox"/>		Edit		Copy		Delete	301	ANUSHKA	F
<input type="checkbox"/>		Edit		Copy		Delete	302	PRABHAS	M
<input type="checkbox"/>		Edit		Copy		Delete	303	PUNITH	M
<input type="checkbox"/>		Edit		Copy		Delete	304	JERMY	M

DIRECTOR:

	← T →	▼	DIR_ID	DIR_NAME	DIR_PHONE				
<input type="checkbox"/>		Edit		Copy		Delete	60	RAJAMOULI	2147483647
<input type="checkbox"/>		Edit		Copy		Delete	61	HITCHCOCK	2147483647
<input type="checkbox"/>		Edit		Copy		Delete	62	FARAN	2147483647
<input type="checkbox"/>		Edit		Copy		Delete	63	STEVEN SPIELBERG	2147483647

MOVIES:

	<input type="button" value="←"/>	<input type="button" value="→"/>		MOV_ID	MOV_TITLE	MOV_YEAR	MOV_LANG	DIR_ID
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1001	BAHUBALI-2	1999	TELUGU	60
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1002	BAHUBALI-1	2015	TELUGU	60
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1003	AKASH	2008	KANNADA	61
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1004	WAR HORSE	2011	ENGLISH	63

MOVIE_CAST:

	<input type="button" value="←"/>	<input type="button" value="→"/>		ACT_ID	MOV_ID	ROLE
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	301	1001	HEROINE
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	301	1002	HEROINE
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	303	1002	GUEST
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	303	1003	HERO
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	304	1004	HERO

RATING:

	<input type="button" value="←"/>	<input type="button" value="→"/>		MOV_ID	REV_STARS
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1001	5
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1002	5
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1003	3
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1004	4

- List the titles of all movies directed by 'Hitchcock'.

Showing rows 0 - 0 (1 total, Query took 0.0034 seconds.)

```
SELECT MOV_TITLE FROM MOVIES WHERE DIR_ID IN (SELECT DIR_ID FROM DIRECTOR WHERE DIR_NAME = 'HITCHCOCK')
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows:

+ Options

MOV_TITLE

AKASH

- Find the movie names where one or more actors acted in two or more movies.

Showing rows 0 - 3 (4 total, Query took 0.0121 seconds.)

```
select distinct m.mov_title,c.act_id from movies m, movie_cast c where m.mov_id=c.mov_id and c.act_id in (select act_id from movie_cast group by act_id having count(mov_id)>1)
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

mov_title	act_id
BAHUBALI-2	301
BAHUBALI-1	301
BAHUBALI-1	303
AKASH	303

- List all actors who acted in a movie before 2000 and also in a movie after 2015 (use JOIN operation).

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0059 seconds.)

```
select act_name from Actor where act_id in(select a.act_id from (select act_id from movie_cast natural join movies where mov_year<2000)a inner join (select act_id from movie_cast natural join movies where mov_year>2015)b on a.act_id=b.act_id)
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

act_name

- Find the title of movies and number of stars for each movie that has at least one rating and find the highest number of stars that movie received. Sort the result by movie title.

Showing rows 0 - 3 (4 total, Query took 0.0050 seconds.)

```
select mov_title,max(rev_stars) from movies m,rating r where m.mov_id=r.mov_id group by m.mov_title having count(r.rev_stars)>0
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

mov_title	max(rev_stars)
AKASH	3
BAHUBALI-1	5
BAHUBALI-2	5
WAR HORSE	4

- Update rating of all movies directed by ‘Steven Spielberg’ to 5.

Showing rows 0 - 3 (4 total, Query took 0.0022 seconds.)

```
SELECT * FROM rating
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

MOV_ID	REV_STARS
1001	5
1002	5
1003	3
1004	5

Lab 10

MySQL returned an empty result set (i.e. zero rows). (Query took 0.3945 seconds.)

```
CREATE TABLE STUDENT ( USN VARCHAR (10) PRIMARY KEY, SNAME VARCHAR (25), ADDRESS VARCHAR (25), PHONE INT, GENDER CHAR (1))
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.2554 seconds.)

```
CREATE TABLE SEMSEC ( SSID VARCHAR (5) PRIMARY KEY, SEM INT, SEC CHAR (1))
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.3318 seconds.)

```
CREATE TABLE CLASS ( USN VARCHAR (10), SSID VARCHAR (5), PRIMARY KEY (USN, SSID), FOREIGN KEY (USN) REFERENCES STUDENT (USN))
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.2752 seconds.)

```
CREATE TABLE SUBJECT ( SUBCODE VARCHAR (8), TITLE VARCHAR (20), SEM INT, CREDITS INT, PRIMARY KEY (SUBCODE))
```

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.5997 seconds.)

```
CREATE TABLE IAMARKS ( USN VARCHAR (10), SUBCODE VARCHAR (8), SSID VARCHAR(5), TEST1 INT, TEST2 INT, TEST3 INT, FINALIA INT, PRIMARY KEY (USN, SUBCODE, SSID), FOREIGN KEY (USN) REFERENCES STUDENT (USN), FOREIGN KEY (SUBCODE) REFERENCES SUBJECT (SUBCODE), FOREIGN KEY (SSID) REFERENCES SEMSEC (SSID))
```

[Edit inline] [Edit] [Create PHP code]

STUDENT:

USN	SNAME	ADDRESS	PHONE	GENDER
20	AKSHAY	BELAGAVI	2147483647	M
1RN13CS062	SANDHYA	BENGALURU	2147483647	F
1RN13CS066	SUPRIYA	MANGALURU	2147483647	F
1RN13CS091	TEESHA	BENGALURU	2147483647	F
1RN14CS010	ABHAY	BENGALURU	2147483647	M
1RN14CS025	ASMI	BENGALURU	2147483647	F
1RN14CS032	BHASKAR	BENGALURU	2147483647	M
1RN15CS011	AJAY	TUMKUR	2147483647	M

SEMSEC:

		SSID	SEM	SEC
<input type="checkbox"/>	Edit Copy Delete	CSE1A	1	A
<input type="checkbox"/>	Edit Copy Delete	CSE2A	2	A
<input type="checkbox"/>	Edit Copy Delete	CSE2B	2	B
<input type="checkbox"/>	Edit Copy Delete	CSE2C	2	C
<input type="checkbox"/>	Edit Copy Delete	CSE3A	3	A
<input type="checkbox"/>	Edit Copy Delete	CSE3B	3	B
<input type="checkbox"/>	Edit Copy Delete	CSE3C	3	C
<input type="checkbox"/>	Edit Copy Delete	CSE4A	4	A
<input type="checkbox"/>	Edit Copy Delete	CSE4B	4	B
<input type="checkbox"/>	Edit Copy Delete	CSE4C	4	C
<input type="checkbox"/>	Edit Copy Delete	CSE5A	5	A
<input type="checkbox"/>	Edit Copy Delete	CSE5B	5	B
<input type="checkbox"/>	Edit Copy Delete	CSE5C	5	C
<input type="checkbox"/>	Edit Copy Delete	CSE6A	6	A
<input type="checkbox"/>	Edit Copy Delete	CSE6B	6	B
<input type="checkbox"/>	Edit Copy Delete	CSE6C	6	C
<input type="checkbox"/>	Edit Copy Delete	CSE7A	7	A
<input type="checkbox"/>	Edit Copy Delete	CSE7B	7	B
<input type="checkbox"/>	Edit Copy Delete	CSE7C	7	C
<input type="checkbox"/>	Edit Copy Delete	CSE8A	8	A
<input type="checkbox"/>	Edit Copy Delete	CSE8B	8	B
<input type="checkbox"/>	Edit Copy Delete	CSE8C	8	C

CLASS:

		USN	SSID
<input type="checkbox"/>	Edit Copy Delete	3CS020	CSE8A
<input type="checkbox"/>	Edit Copy Delete	1RN13CS062	CSE8A
<input type="checkbox"/>	Edit Copy Delete	1RN13CS066	CSE8B
<input type="checkbox"/>	Edit Copy Delete	1RN13CS091	CSE8C
<input type="checkbox"/>	Edit Copy Delete	1RN14CS010	CSE7A
<input type="checkbox"/>	Edit Copy Delete	1RN14CS025	CSE7A
<input type="checkbox"/>	Edit Copy Delete	1RN14CS032	CSE7A
<input type="checkbox"/>	Edit Copy Delete	1RN15CS011	CSE4A

SUBJECT:

	<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	SUBCODE	TITLE	SEM	CREDITS
	<input type="checkbox"/>	Edit	Copy	Delete	10CS71	OOAD	7	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS72	ECS	7	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS73	PTW	7	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS74	DWDM	7	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS75	JAVA	7	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS76	SAN	7	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS81	ACA	8	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS82	SSM	8	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS83	NM	8	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS84	CC	8	4
	<input type="checkbox"/>	Edit	Copy	Delete	10CS85	PW	8	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS31	M3	3	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS32	ADE	3	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS33	DSA	3	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS34	CO	3	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS35	USP	3	3
	<input type="checkbox"/>	Edit	Copy	Delete	15CS36	DMS	3	3
	<input type="checkbox"/>	Edit	Copy	Delete	15CS41	M4	4	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS42	SE	4	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS43	DAA	4	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS44	MPMC	4	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS45	OOC	4	3
	<input type="checkbox"/>	Edit	Copy	Delete	15CS46	DC	4	3
	<input type="checkbox"/>	Edit	Copy	Delete	15CS51	ME	5	4
	<input type="checkbox"/>	Edit	Copy	Delete	15CS52	CN	5	4

IAMARKS:

	<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	USN	SUBCODE	SSID	TEST1	TEST2	TEST3	FINALIA
	<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	10CS81	CSE8C	15	16	18	NULL
	<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	10CS82	CSE8C	12	19	14	NULL
	<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	10CS83	CSE8C	19	15	20	NULL
	<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	10CS84	CSE8C	20	16	19	NULL
	<input type="checkbox"/>	Edit	Copy	Delete	1RN13CS091	10CS85	CSE8C	15	15	12	NULL

- List all the student details studying in fourth semester 'A' section.

Showing rows 0 - 0 (1 total, Query took 0.0055 seconds.)

```
SELECT S.* , SS.SEM, SS.SEC FROM STUDENT S, SEMSEC SS, CLASS C WHERE S.USN = C.USN AND SS.SSID = C.SSID AND SS.SEM = 4 AND SS.SEC='A'
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25

+ Options						
USN	SNAME	ADDRESS	PHONE	GENDER	SEM	SEC
1RN15CS011	AJAY	TUMKUR	2147483647	M	4	A

- Compute the total number of male and female students in each semester and in each section.

Showing rows 0 - 6 (7 total, Query took 0.0590 seconds.)

```
SELECT SS.SEM, SS.SEC, S.GENDER, COUNT(S.GENDER) AS COUNT FROM STUDENT S, SEMSEC SS, CLASS C WHERE S.USN = C.USN AND SS.SSID=C.SSID GROUP BY SS.SEM, SS.SEC, S.GENDER ORDER BY SEM
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

SEM	1	SEC	GENDER	COUNT
4	A	M		1
7	A	F		1
7	A	M		2
8	A	F		1
8	A	M		1
8	B	F		1
8	C	F		1

- Create a view of Test1 marks of student USN '1RN13CS091' in all subjects.

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0478 seconds.)

```
CREATE VIEW STU_TEST1_MARKS_VIEW AS SELECT TEST1, SUBCODE FROM IAMARKS WHERE USN = '1RN13CS091'
```

[\[Edit inline\]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

Showing rows 0 - 4 (5 total, Query took 0.0025 seconds.)

```
select * from stu_test1_marks_view
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

← T →	TEST1	SUBCODE
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	10CS81
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	12	10CS82
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	19	10CS83
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	20	10CS84
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	15	10CS85

- Calculate the FinalIA (average of best two test marks) and update the corresponding table for all students.

MySQL returned an empty result set (i.e. zero rows). (Query took 0.2361 seconds.)

```
CREATE PROCEDURE AVG_MARKS() BEGIN DECLARE C_A INTEGER; DECLARE C_B INTEGER; DECLARE C_C INTEGER; DECLARE C_SUM INTEGER; DECLARE C_AVG INTEGER; DECLARE C_USN VARCHAR(10); DECLARE C_SUBCODE VARCHAR(8); DECLARE C_SSID VARCHAR(5); DECLARE C_IAMARKS CURSOR FOR SELECT GREATEST(TEST1,TEST2) AS A, GREATEST(TEST1,TEST3) AS B, GREATEST(TEST3,TEST2) AS C, USN, SUBCODE, SSID FROM IAMARKS WHERE FINALIA IS NULL FOR UPDATE; OPEN C_IAMARKS; LOOP FETCH C_IAMARKS INTO C_A, C_B, C_C, C_USN, C_SUBCODE, C_SSID; IF (C_A != C_B) THEN SET C_SUM=C_A+C_B; ELSE SET C_SUM=C_A+C_C; END IF; SET C_AVG=C_SUM/2; UPDATE IAMARKS SET FINALIA = C_AVG WHERE USN = C_USN AND SUBCODE = C_SUBCODE AND SSID = C_SSID; END LOOP; CLOSE C_IAMARKS; END;
```

[\[Edit inline\]](#) [\[Edit \]](#) [\[Create PHP code \]](#)

- Categorize students based on the following criterion:

If FinalIA = 17 to 20 then CAT = 'Outstanding'

If FinalIA = 12 to 16 then CAT = 'Average'

If FinalIA < 12 then CAT = 'Weak'

Give these details only for 8th semester A, B, and C section students.

Showing rows 0 - 4 (5 total, Query took 0.0240 seconds.)

```
SELECT S.USN,S.SNAME,S.ADDRESS,S.PHONE,S.GENDER, (CASE WHEN IA.FINALIA BETWEEN 17 AND 20 THEN 'OUTSTANDING' WHEN IA.FINALIA BETWEEN 12 AND 16 THEN 'AVERAGE' ELSE 'WEAK' END) AS CAT FROM STUDENT S, SEMSEC SS, IAMARKS IA, SUBJECT SUB WHERE S.USN = IA.USN AND SS.SSID = IA.SSID AND SUB.SUBCODE = IA.SUBCODE AND SUBSEM = 8
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25 Filter rows: Search this table

+ Options

	USN	SNAME	ADDRESS	PHONE	GENDER	CAT
<input type="checkbox"/>	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK
<input type="checkbox"/>	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK
<input type="checkbox"/>	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK
<input type="checkbox"/>	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK
<input type="checkbox"/>	1RN13CS091	TEESHA	BENGALURU	2147483647	F	WEAK