

Course Title : Database System Sessional
Course Code : CCE - 224

Lab Problem : 02

Submitted To

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Faculty Of Computer Science & Engineering.

Submitted By

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Reg. No : 08722

Session : 2019 - 20

Patuakhali Science & Technology University
Dumki, Patuakhali - 8602

❖ Insert into Classroom Table

```
INSERT INTO Classroom (building, room_number, capacity) VALUES ('Jamall Hall', 102, 60);
```

✓ 1 row inserted. (Query took 0.0032 seconds.)

```
INSERT INTO Classroom (building, room_number, capacity) VALUES ('Jamall Hall', 102, 60);
```

❖ Insert into department Table

```
INSERT INTO department (dept_name, building, budget) VALUES ('Computer Science', 'Engineering', 500000.00);
```

✓ 1 row inserted. (Query took 0.0004 seconds.)

```
INSERT INTO department (dept_name, building, budget) VALUES ('Computer Science', 'Engineering', 500000.00);
```

❖ Insert into course Table

```
INSERT INTO course (course_id, title, dept_name, credits) VALUES ('CS101', 'Introduction to Computer Science', 'Computer Science', 3);
```

✓ 1 row inserted. (Query took 0.0004 seconds.)

```
INSERT INTO course (course_id, title, dept_name, credits) VALUES ('CS101', 'Introduction to Computer Science', 'Computer Science', 3);
```































❖ Insert into instructor Table

```
INSERT INTO instructor (ID, name, dept_name, salary) VALUES ('101', 'John Doe', 'Computer Science', 80000.00);
```































✓ 1 row inserted. (Query took 0.0003 seconds.)

```
INSERT INTO instructor (ID, name, dept_name, salary) VALUES ('101', 'John Doe', 'Computer Science', 80000.00);
```

❖ select name from instructor;

				name
<input type="checkbox"/>	 Edit	 Copy	 Delete	Jane Smith
<input type="checkbox"/>	 Edit	 Copy	 Delete	Robert Johnson
<input type="checkbox"/>	 Edit	 Copy	 Delete	Karen Lee
<input type="checkbox"/>	 Edit	 Copy	 Delete	William Chen
<input type="checkbox"/>	 Edit	 Copy	 Delete	Linda Kim
<input type="checkbox"/>	 Edit	 Copy	 Delete	David Lee
<input type="checkbox"/>	 Edit	 Copy	 Delete	Jennifer Wong
<input type="checkbox"/>	 Edit	 Copy	 Delete	Michael Davis
<input type="checkbox"/>	 Edit	 Copy	 Delete	Emily Chen
<input type="checkbox"/>	 Edit	 Copy	 Delete	Thomas Kim

❖ SELECT dept_name FROM instructor;

				dept_name
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science
<input type="checkbox"/>	 Edit	 Copy	 Delete	Computer Science

❖ **SELECT DISTINCT dept_name FROM instructor;**

✓ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT DISTINCT dept_name FROM instructor;
```

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

☐ Show all | Number of rows: 25 | Filter rows: []

Extra options

				dept_name
<input type="checkbox"/>	Edit	Copy	Delete	Business Administrat
<input type="checkbox"/>	Edit	Copy	Delete	Computer Science
<input type="checkbox"/>	Edit	Copy	Delete	English
<input type="checkbox"/>	Edit	Copy	Delete	History
<input type="checkbox"/>	Edit	Copy	Delete	Mathematics

❖ **SELECT DISTINCT dept_name FROM instructor;**

✓ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

```
SELECT DISTINCT dept_name FROM instructor;
```

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

☐ Show all | Number of rows: 25 | Filter rows: []

Extra options

				dept_name
<input type="checkbox"/>	Edit	Copy	Delete	Business Administrat
<input type="checkbox"/>	Edit	Copy	Delete	Computer Science
<input type="checkbox"/>	Edit	Copy	Delete	English
<input type="checkbox"/>	Edit	Copy	Delete	History
<input type="checkbox"/>	Edit	Copy	Delete	Mathematics

❖ **SELECT ID, name, dept_name, salary * 1.1 FROM instructor;**

Showing rows 0 - 9 (10 total, Query took 0.0003 seconds.)

```
SELECT ID, name, dept_name, salary * 1.1 FROM instructor;
```

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

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by k

Extra options

	ID	name	dept_name	salary * 1.1
<input type="checkbox"/> Edit Copy Delete	102	Jane Smith	Business Administrat	82500.000
<input type="checkbox"/> Edit Copy Delete	103	Robert Johnson	Computer Science	93500.000
<input type="checkbox"/> Edit Copy Delete	104	Emily Davis	English	66000.000
<input type="checkbox"/> Edit Copy Delete	105	William Brown	History	77000.000
<input type="checkbox"/> Edit Copy Delete	106	Sarah Wilson	Mathematics	99000.000
<input type="checkbox"/> Edit Copy Delete	107	David Lee	Business Administrat	88000.000
<input type="checkbox"/> Edit Copy Delete	108	Karen Martin	Computer Science	82500.000
<input type="checkbox"/> Edit Copy Delete	109	Michael Hernandez	English	93500.000
<input type="checkbox"/> Edit Copy Delete	110	Susan Kim	History	71500.000
<input type="checkbox"/> Edit Copy Delete	111	Brian Thompson	Mathematics	88000.000

❖ **SELECT name FROM instructor WHERE dept_name = 'Computer Science' AND salary > 70000;**

Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)

```
SELECT name FROM instructor WHERE dept_name = 'Computer Science' AND salary > 70000;
```

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

☐ Show all | Number of rows: 25

Extra options

	name
<input type="checkbox"/> Edit Copy Delete	Robert Johnson
<input type="checkbox"/> Edit Copy Delete	Karen Martin

☐ Check all | With selected: Edit Copy

Delete Export

❖ **SELECT name, instructor.dept_name, building FROM instructor, department WHERE instructor.dept_name= department.dept_name;**

✓ Showing rows 0 - 9 (10 total, Query took 0.0004 seconds.)

```
SELECT name, instructor.dept_name, building FROM instructor, department WHERE instructor.dept_name= department.dept_name;
```

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

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

name	dept_name	building
Jane Smith	Business Administrat	Business
David Lee	Business Administrat	Business
Robert Johnson	Computer Science	Engineering
Karen Martin	Computer Science	Engineering
Emily Davis	English	Arts
Michael Hernandez	English	Arts
William Brown	History	Social Sciences
Susan Kim	History	Social Sciences
Sarah Wilson	Mathematics	Science
Brian Thompson	Mathematics	Science

❖ **SELECT name, course_id FROM instructor, teaches WHERE instructor.ID= teaches.ID;**

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT name, course_id FROM instructor, teaches WHERE instructor.ID= teaches.ID;
```

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

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

name	course_id
Jane Smith	BA101

☐ Show all | Number of rows: 25 | Filter rows:

❖ **SELECT name, course_id FROM instructor, teaches WHERE instructor.ID= teaches.ID and instructor.dept_name = 'Computer Science';**

✓ Showing rows 0 - 0 (1 total, Query took 0.0018 seconds.)

```
SELECT name, course_id FROM instructor, teaches WHERE instructor.ID= teaches.ID and
instructor.dept_name = 'Computer Science';
```

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

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

name	course_id
Jane Smith	BA101

☐ Show all | Number of rows: 25 ▼ Filter rows:

❖ **SELECT name, course_id FROM instructor, teaches WHERE instructor.ID= teaches.ID;**

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT name, course_id FROM instructor, teaches WHERE instructor.ID=
teaches.ID;
```

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

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

name	course_id
Jane Smith	BA101

☐ Show all | Number of rows: 25 ▼ Filter rows:

❖ **SELECT name as instructor_name, course_id FROM instructor, teaches WHERE instructor.ID= teaches.ID;**

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

✓ Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

```
SELECT name as instructor_name, course_id FROM instructor, teaches
WHERE instructor.ID= teaches.ID;
```

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

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

instructor_name	course_id
Jane Smith	BA101

❖ **SELECT T.name, S.course_id FROM instructor as T, teaches as S WHERE T.ID= S.ID;**

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
SELECT T.name, S.course_id FROM instructor as T, teaches as S WHERE
T.ID= S.ID;
```

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

☐ Show all | Number of rows: 25 ▾ Filter rows:

Extra options

name	course_id
Jane Smith	BA101

❖ **SELECT DISTINCT T.name FROM instructor as T, instructor as S WHERE T.salary > S.salary and S.dept_name = 'Biology';**

✓ Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT DISTINCT T.name FROM instructor as T, instructor as S WHERE  
T.salary > S.salary and S.dept_name = 'Biology';
```

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

☐ Show all | Number of rows: 25 Filter rows:

Extra options



name

<input type="checkbox"/>	Edit	Copy	Delete	Robert Johnson
<input type="checkbox"/>	Edit	Copy	Delete	Sarah Wilson
<input type="checkbox"/>	Edit	Copy	Delete	Michael Hernandez

❖ **SELECT dept_name FROM department WHERE building LIKE '%Science%';**

✓ Showing rows 0 - 2 (3 total, Query took 0.0002 seconds.)

```
SELECT dept_name FROM department WHERE building LIKE '%Science%';
```

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

☐ Show all | Number of rows: 25 Filter rows:

Extra options



dept_name

<input type="checkbox"/>	Edit	Copy	Delete	Biology
<input type="checkbox"/>	Edit	Copy	Delete	History
<input type="checkbox"/>	Edit	Copy	Delete	Mathematics

☐ Check all With selected: Edit Copy Delete

❖ **SELECT instructor.* FROM instructor, teaches WHERE instructor.ID= teaches.ID;**

✓ Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)

```
SELECT instructor.* FROM instructor, teaches WHERE instructor.ID=
teaches.ID;
```

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

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options



ID	name	dept_name	salary
102	Jane Smith	Computer Science	75000.00



Edit



Copy



Delete

❖ **SELECT name FROM instructor where dept_name = 'Physics' order by name;**

```
SELECT name FROM instructor where dept_name = 'Physics' order by name;
```

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

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options



name
William Brown



Edit



Copy



Delete

❖ select name, course_id from instructor, teaches where instructor.ID= teaches.ID and dept name = 'Biology';

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0017 seconds.)

```
select name, course_id from instructor, teaches where instructor.ID=
teaches.ID and dept_name = 'Biology';
```

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

name	course_id
------	-----------

Blank Result - No data found

❖ select name, course_id from instructor, teaches where (instructor.ID, dept_name) = (teaches.ID, 'Biology');

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0012 seconds.)

```
select name, course_id from instructor, teaches where (instructor.ID,
dept_name) = (teaches.ID, 'Biology');
```

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

name	course_id
------	-----------

❖ select course_id from section where semester = 'Fall' and year= 2017;


































✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
select course_id from section where semester = 'Fall' and year= 2017;
```




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

course_id




❖ **SELECT * FROM instructor ORDER BY salary DESC, name ASC;**

				ID	name	dept_name	salary
<input type="checkbox"/>		Edit		Copy		Delete	106 Sarah Wilson Mathematics 90000.00
<input type="checkbox"/>		Edit		Copy		Delete	109 Michael Hernandez English 85000.00
<input type="checkbox"/>		Edit		Copy		Delete	103 Robert Johnson Computer Science 85000.00
<input type="checkbox"/>		Edit		Copy		Delete	111 Brian Thompson Mathematics 80000.00
<input type="checkbox"/>		Edit		Copy		Delete	107 David Lee Shishir Business Administrat 80000.00
<input type="checkbox"/>		Edit		Copy		Delete	112 Shishir Biology 80000.00
<input type="checkbox"/>		Edit		Copy		Delete	102 Jane Smith Computer Science 75000.00
<input type="checkbox"/>		Edit		Copy		Delete	108 Karen Martin Computer Science 75000.00
<input type="checkbox"/>		Edit		Copy		Delete	105 William Brown Physics 70000.00
<input type="checkbox"/>		Edit		Copy		Delete	110 Susan Kim History 65000.00
<input type="checkbox"/>		Edit		Copy		Delete	104 Emily Davis English 60000.00

❖ **select name from instructor where salary between 90000 and 100000;**

					name
<input type="checkbox"/>		Edit		Copy	 Delete Sarah Wilson

❖ **SELECT name FROM instructor WHERE salary <= 100000 AND salary >= 90000;**

					name
<input type="checkbox"/>		Edit		Copy	 Delete Sarah Wilson

❖ select name, course_id from instructor, teaches where instructor.ID= teaches.ID and dept name = 'Biology';

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0017 seconds.)

```
select name, course_id from instructor, teaches where instructor.ID=
teaches.ID and dept_name = 'Biology';
```

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

name	course_id
------	-----------

Blank Result - No data found

❖ select name, course_id from instructor, teaches where (instructor.ID, dept_name) = (teaches.ID, 'Biology');

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0012 seconds.)

```
select name, course_id from instructor, teaches where (instructor.ID,
dept_name) = (teaches.ID, 'Biology');
```

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

name	course_id
------	-----------

❖ select course_id from section where semester = 'Fall' and year= 2017;

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
select course_id from section where semester = 'Fall' and year= 2017;
```

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

course_id

❖ `select course_id from section where semester = 'Spring' and year= 2018;`

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
select course_id from section where semester = 'Spring' and year= 2018;
```

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

course_id

❖ `(select course_id from section where semester = 'Fall' and year= 2017) union (select course_id from section where semester = 'Spring' and year= 2018);`

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0005 seconds.)

```
(select course_id from section where semester = 'Fall' and  
year= 2017) union (select course_id from section where semester  
= 'Spring' and year= 2018);
```

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

course_id

❖ `(select course_id from section where semester = 'Fall' and year= 2017) union all (select course_id from section where semester = 'Spring' and year= 2018);`

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
(select course_id from section where semester = 'Fall' and  
year= 2017) union all (select course_id from section where  
semester = 'Spring' and year= 2018);
```

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

course_id

❖ (select course_id from section where semester = 'Fall' and year= 2017) intersect (select course_id from section where semester = 'Spring' and year= 2018);

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
(select course_id from section where semester = 'Fall' and  
year= 2017) intersect (select course_id from section where  
semester = 'Spring' and year= 2018);
```

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

course_id