

## DBMS ASSINGMENT 5

### GROUP 14

#	studentID	studentname	parent	address
1	5	Jack	Robert	Georgia
2	8	Ryan	Edward	California
3	10	Luke	William	Boston
4	17	Ted	Samuel	Georgia
5	18	Bryan	John	Boston
6	19	Jim	David	LA
*	NULL	NULL	NULL	NULL

### STUDENT TABLE

#	courseid	coursename	rollno
1	1	Physics	5
2	2	Chemistry	7
3	3	Maths	12
4	4	Biology	5
5	5	Physical Education	5
6	6	Computer Science	12

### Course table





## Inner Join Query 2

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
select studentID, studentname, courseid, coursename from students inner join course on students.studentID=course.rollno where courseid%2=1;
```

The results are displayed in the Result Grid, showing two rows:

#	studentID	studentname	courseid	coursename
1	5	Jack	1	Physics
2	5	Jack	5	Physical Education

The bottom panel shows the Action Output with the following details:

#	Time	Action	Message	Duration / Fetch
22	19:27:28	select studentID, studentname, courseid, coursename from stud...	3 row(s) returned	0.00087 sec / 0.000...
23	19:27:50	select studentID, studentname, courseid, coursename from stud...	2 row(s) returned	0.00083 sec / 0.000...

Query Completed

## Inner Join Query 3

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

- Filter objects
- School
  - Tables
  - Views
  - Stored Procedures
  - Functions

Object Info Session

No object selected

Query 1: select studentID, studentname, courseid, course name from students left join course on students.studentID=course.rollid;

Result Grid

#	studentID	studentname	courseid	course name
1	5	Jack	1	Physics
2	5	Jack	4	Biology
3	5	Jack	5	Physical Education
4	8	Ryan		
5	10	Luke		
6	17	Ted		
7	18	Bryan		
8	19	Jim		

Action Output

#	Time	Action	Message	Duration / Fetch
25	19:33:37	select* from course LIMIT 0, 1000	6 row(s) returned	0.00067 sec / 0.000...
26	19:39:36	select studentID, studentname, courseid, course name from stud...	8 row(s) returned	0.00030 sec / 0.000...

Query Completed

Left join query 1

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

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  - Tables
  - Views
  - Stored Procedures
  - Functions

Object Info Session

No object selected

Query 1 SQL File 3\* SQL File 4\* SQL File 5\*

Limit to 1000 rows

```
1 select* from students left join course on students.studentID=course.rollno where studentID between 7 and 17;
```

Result Grid

#	studentID	studentname	parent	address	courseid	coursename	rollno
1	8	Ryan	Edward	California	0001	0001	0001
2	10	Luke	William	Boston	0001	0001	0001
3	17	Ted	Samuel	Georgia	0001	0001	0001

Result 7

Action Output

#	Time	Action	Message	Duration / Fetch
26	19:39:36	select studentID,studentname,courseid,coursename from stud...	8 row(s) returned	0.00030 sec / 0.000...
27	19:41:38	select* from students left join course on students.studentID=c...	3 row(s) returned	0.0011 sec / 0.0000...

Query Completed

Left Join query 2

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variable
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

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- Views
- Stored Procedures
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Object Info Session

No object selected

Query 1 SQL File 3\* SQL File 4\* SQL File 5\*

Limit to 1000 rows

```
1 select* from students left join course on students.studentID=course.rollno where address='Georgia' or address='Boston';
```

Result Grid

#	studentID	studentname	parent	address	courseid	coursename	rollno
1	5	Jack	Robert	Georgia	1	Physics	5
2	5	Jack	Robert	Georgia	4	Biology	5
3	5	Jack	Robert	Georgia	5	Physical Education	5
4	10	Luke	William	Boston	1	Physics	10
5	17	Ted	Samuel	Georgia	1	Physics	17
6	18	Bryan	John	Boston	1	Physics	18

Result 8

Action Output

#	Time	Action	Message	Duration / Fetch
27	19:41:38	select* from students left join course on students.studentID=c...	3 row(s) returned	0.0011 sec / 0.0000...
28	19:44:42	select* from students left join course on students.studentID=c...	6 row(s) returned	0.00060 sec / 0.000...

Query Completed

left join query 3

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

Filter objects

- School
  - Tables
  - Views
  - Stored Procedures
  - Functions

Object Info Session

No object selected

Query 1

```
select* from students right join course on students.studentID=course.rollno;
```

Result Grid

#	studentID	studentname	parent	address	courseid	coursename	rollno
1	5	Jack	Robert	Georgia	1	Physics	5
2	5	Jack	Robert	Georgia	2	Chemistry	7
3	5	Jack	Robert	Georgia	3	Maths	12
4	5	Jack	Robert	Georgia	4	Biology	5
5	5	Jack	Robert	Georgia	5	Physical Education	5
6	5	Jack	Robert	Georgia	6	Computer Science	12

Result 9

Action Output

#	Time	Action	Message	Duration / Fetch
28	19:44:42	select* from students left join course on students.studentID=c...	6 row(s) returned	0.00060 sec / 0.000...
29	19:53:31	select* from students right join course on students.studentID=...	6 row(s) returned	0.00031 sec / 0.000...

Query Completed

right join query 1

MySQL Workbench

Local instance 3306

File Edit View Query Database Server Tools Scripting Help

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

SCHEMAS

- Filter objects
- School
  - Tables
  - Views
  - Stored Procedures
  - Functions

Object Info Session

No object selected

Query 1

```
select* from students right join course on students.studentID=course.rollno where rollno!=5;
```

Result Grid

#	studentID	studentname	parent	address	courseid	coursename	rollno
1	NULL	NULL	NULL	NULL	2	Chemistry	7
2	NULL	NULL	NULL	NULL	3	Maths	12
3	NULL	NULL	NULL	NULL	6	Computer Science	12

Result 12

Action Output

#	Time	Action	Message	Duration / Fetch
31	19:56:14	select* from students right join course on students.studentID...	0 row(s) returned	0.00088 sec / 0.000...
32	19:56:49	select* from students right join course on students.studentID...	3 row(s) returned	0.00073 sec / 0.000...

Query Completed

right join query 2



MySQL Workbench

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File Edit View Query Database Server Tools Scripting Help

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

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- Views
- Stored Procedures
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Object Info Session

No object selected

Query 1

```
select* from students right join course on students.studentID=course.rollno where (courseid+rollno)%2=0;
```

Limit to 1000 rows

Result Grid

#	studentID	studentname	parent	address	courseid	coursename	rollno
1	5	Jack	Robert	Georgia	1	Physics	5
2	5	Jack	Robert	Georgia	5	Physical Education	5
3	0000	0000	0000	0000	6	Computer Science	12

Result 14

Action Output

#	Time	Action	Message	Duration / Fetch
33	19:58:39	select* from students right join course on students.studentID...	3 row(s) returned	0.00084 sec / 0.000...
34	19:59:16	select* from students right join course on students.studentID...	3 row(s) returned	0.00083 sec / 0.000...

Query Completed

right join query 3