

DBMS PRACTICAL NO.: 09

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Experiment No 09: Implement Relational operators to apply various conditions in query.

EXERCISE:

Consider the following schema Student (stu_name, course_id, Roll_no, percentage)

Write queries for the following:

1. Select stu_name, course_id, from Student WHERE percentage is ≥ 60 and ≤ 100 ;
2. Select details of students whose Roll numbers are above 15;
3. Select stu_id, Roll_no from Student WHERE course_id \neq 121;

➤ Select stu_name, course_id, from Student WHERE percentage is ≥ 60 and ≤ 100 ;

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with a search filter. The main editor window shows two SQL queries: Step 1 (Select * From Student Where percentage ≥ 60 AND percentage ≤ 100 ;) and Step 2 (Select * From Student Where Roll_no > 15;). The 'Result Grid' at the bottom displays the results of the first query, showing 11 rows of student data.

	stu_id	stu_name	course_id	Roll_no	percentage
▶	1	Aditi Joshi	101	1	85.50
	2	Rahul Patil	102	2	90.00
	3	Sneha Deshmukh	103	3	72.00
	4	Aakash Nair	104	4	68.50
	5	Priya Kulkarni	105	5	78.00
	6	Mohan Yadav	106	6	65.00
	7	Samir Shinde	107	7	88.00
	8	Neha Pawar	108	8	92.75
	11	Kiran Gaikwad	111	11	77.25

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
stu_id	stu_name	course_id	Roll_no	percentage
1	Aditi Joshi	101	1	85.50
2	Rahul Patil	102	2	90.00
3	Sneha Deshmukh	103	3	72.00
4	Aakash Nair	104	4	68.50
5	Priya Kulkarni	105	5	78.00
6	Mohan Yadav	106	6	65.00
7	Samir Shinde	107	7	88.00
8	Neha Pawar	108	8	92.75
11	Kiran Gaikwad	111	11	77.25

Student 7 x

Output

Action Output

#	Time	Action	Message
49	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (46, 'Chitra Joshi', 121, 46...	1 row(s) affected
50	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (47, 'Bhushan Choudhary'...	1 row(s) affected
51	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (48, 'Karan Joshi', 123, 48...	1 row(s) affected
52	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (49, 'Sheetal Patil', 124, 49...	1 row(s) affected
53	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (50, 'Neeraj Bhat', 125, 5...	1 row(s) affected
54	18:19:21	Select * From Student Where percentage >=60 AND percentage <=100 LIMIT 0, 1000	37 row(s) returned

➤ *Select details of students whose Roll numbers are above 15;*

MySQL Workbench

Local instance MYSQL80 x unconnected x

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Navigator: Microproject SQL script practical 7* practical 8* practical 4 practical 9 x practical 10

SCHEMAS

Filter objects

- ems_db
- pr10
- pr5
- pr6
- pr7
- pr8
- pr9
 - Tables
 - Views
 - Stored Procedures
 - Functions
- sakila
- sys
- world

Administration Schemas Information

Limit to 1000 rows

```

67
68 -- Step 2
69 • select * From Student
70   Where Roll_no > 15;
71
72 -- Step 3
73 • Select stu_id, Roll_no From Student
74   Where course_id != 121;

```

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
stu_id	stu_name	course_id	Roll_no	percentage
16	Nitin Suryavanshi	116	16	40.00
17	Sunil Chavan	117	17	45.00
18	Meera Sane	118	18	92.00
19	Akshay Waghmare	119	19	62.00
20	Sonali Sardesai	120	20	66.00
21	Ramesh Ghosh	121	21	37.50
22	Amit Pawar	122	22	40.00
23	Bhavna Jadhav	123	23	89.00
24	Tushar Khedkar	124	24	95.00

Student 8 x

Result Grid	Filter Rows:	Edit:	Export/Import:	Wrap Cell Content:
stu_id	stu_name	course_id	Roll_no	percentage
16	Nitin Suryavanshi	116	16	40.00
17	Sunil Chavan	117	17	45.00
18	Meera Sane	118	18	92.00
19	Akshay Waghmare	119	19	62.00
20	Sonali Sardesai	120	20	66.00
21	Ramesh Ghosh	121	21	37.50
22	Amit Pawar	122	22	40.00
23	Bhavna Jadhav	123	23	89.00
24	Tushar Khedkar	124	24	95.00

Student 8 x

Output

Action Output

#	Time	Action	Message
50	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (47, 'Bhushan Choudhary'...	1 row(s) affected
51	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (48, 'Karan Joshi', 123, 48...	1 row(s) affected
52	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (49, 'Sheetal Patil', 124, 4...	1 row(s) affected
53	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (50, 'Neeraj Bhat', 125, 5...	1 row(s) affected
54	18:19:21	Select * From Student Where percentage >=60 AND percentage <=100 LIMIT 0, 1000	37 row(s) returned
55	18:33:16	Select * From Student Where Roll_no > 15 LIMIT 0, 1000	35 row(s) returned

➤ *Select stu_id, Roll_no from Student WHERE course_id !=121;*

MySQL Workbench

Local instance MYSQL80 x unconnected x

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas

Filter objects

ems_db
pr10
pr5
pr6
pr7
pr8
pr9
Tables
Views
Stored Procedures
Functions
sakila
sys
world

Microproject SQL script practical 7* practical 8* practical 4 practical 9 x practical 10

69 • Select * From Student
70 Where Roll_no > 15;
71
72 -- Step 3
73 • Select stu_id, Roll_no From Student
74 Where course_id != 121;
75
76

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

stu_id	Roll_no
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

Student 9 x

Output

Result Grid



Filter Rows:

Edit:



Export/Import:



Wrap Cell Content:



IA

	stu_id	Roll_no
▶	1	1
	2	2
	3	3
	4	4
	5	5
	6	6
	7	7
	8	8
	9	9

Student 9 x

Output



Action Output



	#	Time	Action	Message
✓	51	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (48, 'Karan Joshi', 123, 48...	1 row(s) affected
✓	52	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (49, 'Sheetal Patil', 124, 4...	1 row(s) affected
✓	53	18:19:14	INSERT INTO Student (stu_id, stu_name, course_id, Roll_no, percentage) VALUES (50, 'Neeraj Bhat', 125, 5...	1 row(s) affected
✓	54	18:19:21	Select * From Student Where percentage >=60 AND percentage <=100 LIMIT 0, 1000	37 row(s) returned
✓	55	18:33:16	Select * From Student Where Roll_no > 15 LIMIT 0, 1000	35 row(s) returned
✓	56	18:34:05	Select stu_id, Roll_no From Student Where course_id != 121 LIMIT 0, 1000	48 row(s) returned