

Exam Management System

Innovative Assignment

1. Write a query to display student id, email and login time of all those students who have logged in after 10:50:00.

```
MySQL 8.0 Command Line Client
mysql> select student_id, email, login_time from student natural join attendance where login_time > '10:50:00';
+-----+-----+-----+
| student_id | email                | login_time |
+-----+-----+-----+
| 5          | miteshdya@gmail.com  | 10:50:32   |
| 15         | ramkalter@gmail.com  | 10:53:43   |
| 15         | ramkalter@gmail.com  | 10:54:25   |
| 16         | qadimhi@gmail.com    | 10:50:57   |
| 17         | sabinadri@gmail.com  | 10:52:18   |
| 18         | amolikay@gmail.com   | 10:52:56   |
| 19         | ramkanan@gmail.com   | 10:53:52   |
| 20         | satila@gmail.com     | 10:53:00   |
+-----+-----+-----+
8 rows in set (0.00 sec)
```

2. Write a query to display subject name and code of branch having branch id = 101.

```
MySQL 8.0 Command Line Client
mysql> select subject_code, subject_name from subject natural join branch where branch_id = 101;
+-----+-----+
| subject_code | subject_name          |
+-----+-----+
| 2CS301       | Data Structures       |
| 2CS401       | Computer Architecture |
| 2CS402       | Operating Systems     |
+-----+-----+
3 rows in set (0.02 sec)
```

3. Write a query to display details of exams taken on 18/02/2021.

```
MySQL 8.0 Command Line Client
mysql> select * from exam where exam_date = '2021-02-18';
+-----+-----+-----+-----+-----+-----+-----+
| exam_id | exam_name | exam_duration | exam_date | total_questions | total_marks | branch_id | subject_code |
+-----+-----+-----+-----+-----+-----+-----+
| 1       | Class Test | 01:30:00      | 2021-02-18 | 15              | 40          | 501       | 2CH401       |
| 2       | Class Test | 01:30:00      | 2021-02-18 | 15              | 40          | 501       | 2CH405       |
+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

4. Write a query to display total number of students in each branch.

```
MySQL 8.0 Command Line Client
mysql> select branch_name, count(*) as Total_Students from student natural join branch group by branch_name;
```

branch_name	Total_Students
CSE	5
IT	5
EC	5
Mechanical	2
Chemical	2
IC	1

```
6 rows in set (0.00 sec)
```

5. Write a query to display total number of students in each branch, who have passed the examination.

```
MySQL 8.0 Command Line Client
mysql> select exam_id, count(*) as students_passed from student natural join result where result = 'PASS' group by exam_id order by exam_id;
```

exam_id	students_passed
1	1
3	2
4	4
5	5
6	2
7	3
8	1
10	4
11	2
12	2
13	2

```
11 rows in set (0.00 sec)
```

6. Write a query to display student id and marks obtained of all the students who have failed.

```
MySQL 8.0 Command Line Client
mysql> select student_id, marks_obtained from student natural join result where result = 'FAIL';
```

student_id	marks_obtained
3	9
3	26
4	37
5	17
7	10
8	13
9	7
10	32
11	8
12	17
13	14
13	4
15	36
18	39
19	4
19	3
20	2

```
17 rows in set (0.01 sec)
```

7. Write a query to display details of students who have obtained marks greater than 85.

```
MySQL 8.0 Command Line Client
mysql> select * from student natural join result where marks_obtained > 85;
```

student_id	branch_id	roll_no	email	password	result_id	exam_id	marks_obtained	result
1	101	1	abbasti@gmail.com	a49f7ae4	3	5	87	PASS
3	101	3	aadilora@gmail.com	bbc72613	9	5	91	PASS
12	301	2	darparu@gmail.com	b0bb3799	29	7	94	PASS
14	301	4	narean@gmail.com	92b96858	32	6	88	PASS
14	301	4	narean@gmail.com	92b96858	33	7	90	PASS
15	301	5	ramkalter@gmail.com	f778491e	35	7	90	PASS
17	401	2	sabinadri@gmail.com	22a22f0e	38	12	99	PASS

```
7 rows in set (0.00 sec)
```

8. Write a query to display branch id, branch name and total credits of each branch.

```
MySQL 8.0 Command Line Client
mysql> select branch_id, branch_name, sum(subject_credit) as Total_Credits from branch natural join subject group by branch_id;
```

branch_id	branch_name	Total_Credits
101	CSE	12
201	IT	7
301	EC	6
401	Mechanical	7
501	Chemical	5
601	IC	7

```
6 rows in set (0.00 sec)
```

9. Write a query to display total number of exams taken by each student.

```
MySQL 8.0 Command Line Client
mysql> select student_id, count(exam_id) as exams_appeared from attendance group by student_id;
```

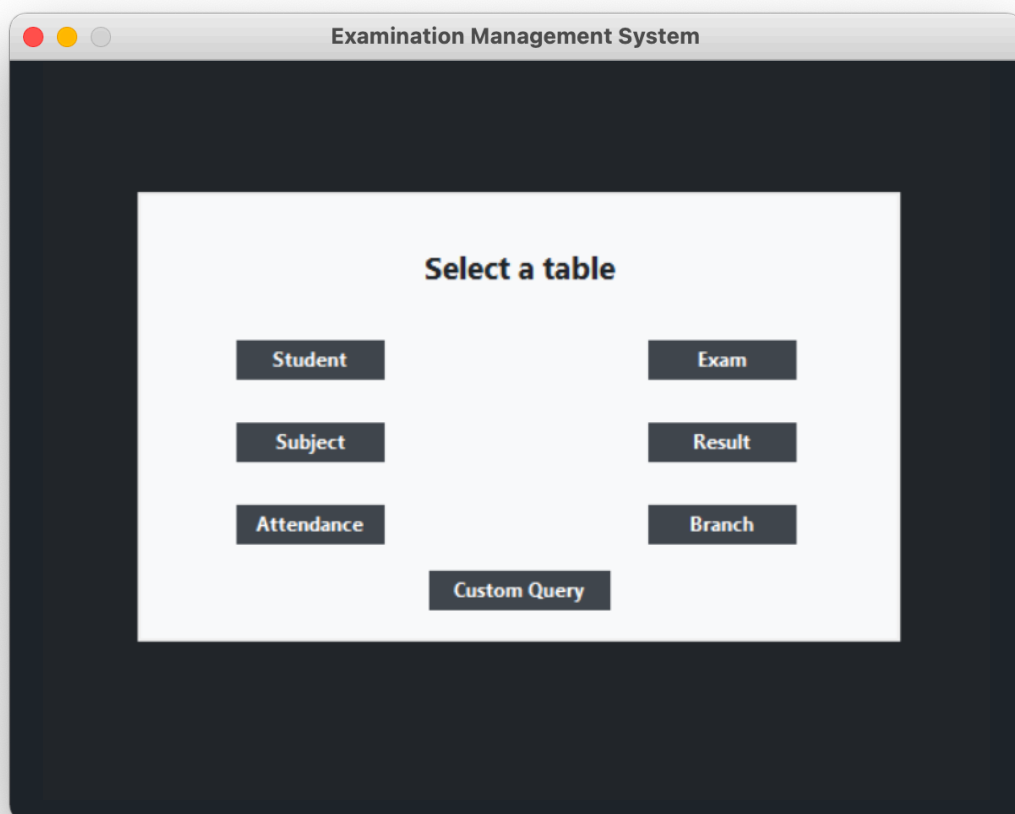
student_id	exams_appeared
1	3
2	3
3	3
4	3
5	3
6	2
7	2
8	2
9	2
10	2
11	2
12	2
13	2
14	2
15	2
16	2
17	2
18	2
19	2
20	2

```
20 rows in set (0.00 sec)
```

10. Write a query to display the total number of students who appeared for exam having exam id = 3.

```
MySQL 8.0 Command Line Client
mysql> select exam_id, count(student_id) as students_attempted from attendance natural join student where exam_id = 3;
+-----+-----+
| exam_id | students_attempted |
+-----+-----+
| 3       | 5                  |
+-----+-----+
1 row in set (0.01 sec)
```

Glimpses of our GUI



Student

Student Table

Student ID	Branch ID	Roll Number	Email	Password
1	101	1	abbasti@gmail.com	a49f7ae4
2	101	2	nilambns@gmail.com	48c7256b
3	101	3	aadilora@gmail.com	bbc72613
4	101	4	emranade@gmail.com	d5e63b50
5	101	5	miteshdya@gmail.com	27a17288
6	201	1	bhaagrma@gmail.com	77e98e90
7	201	2	farahrrau@gmail.com	7ce63326
8	201	3	hola@gmail.com	65f116ae
9	201	4	bishra@gmail.com	aaa72066

Back

Add

Delete

Modify

Exam

Eaxm Table

Exam ID	Exam Name	Exam Duration	Exam Date	Total Question
1	Class Test	1:30:00	2021-02-18	15
2	Class Test	1:30:00	2021-02-18	15
3	Class Test	1:30:00	2021-02-19	15
4	Class Test	1:30:00	2021-02-19	15
5	Class Test	1:30:00	2021-02-19	15
6	Class Test	1:30:00	2021-02-20	15
7	Class Test	1:30:00	2021-02-20	15
8	Class Test	1:30:00	2021-02-21	15
9	Class Test	1:30:00	2021-02-21	15

Back

Add

Delete

Modify

Subject

Subject Table

Subject Code	Branch ID	Subject Name	Subject Credit
2CH401	501	Mass Transfer Operatic	3
2CH405	501	Process Calculations	2
2CS301	101	Data Structures	4
2CS401	101	Computer Architectur	4
2CS402	101	Operating Systems	4
2EC402	301	Analog Circuits	4
2HS341	301	POM	2
2IC402	601	Industrial Electronics	4
2IC404	601	Control System Desigr	3
2IT301	201	OOP	4

Back

Add

Delete

Modify

Result

Result Table

Result ID	Student ID	Exam ID	Marks Obtained	Result
1	1	3	71	PASS
2	1	4	77	PASS
3	1	5	87	PASS
4	2	3	80	PASS
5	2	4	46	PASS
6	2	5	84	PASS
7	3	3	9	FAIL
8	3	4	26	FAIL
9	3	5	91	PASS
10	4	3	37	FAIL

Back

Add

Delete

Modify

Attendance				
Attendance Table				
Attendance ID	Student ID	Exam ID	Login Time	Logout Time
1	1	3	10:33:02	12:12:34
2	1	4	10:40:36	12:02:27
3	1	5	10:38:47	12:10:20
4	2	3	10:33:20	12:03:07
5	2	4	10:41:50	12:12:42
6	2	5	10:43:39	12:13:45
7	3	3	10:31:20	12:00:55
8	3	4	10:39:37	12:02:38
9	3	5	10:31:06	12:01:57
10	4	3	10:39:50	12:03:37

Back

Add

Delete

Modify

Branch	
Branch Table	
Branch ID	Branch Name
101	CSE
201	IT
301	EC
401	Mechanical
501	Chemical
601	IC

Back

Add

Delete

Modify

Custom Query

Query :

select * from result where result='FAIL';

Execute

result_id	student_id	exam_id	marks_obtained	result
7	3	3	9	FAIL
8	3	4	26	FAIL
10	4	3	37	FAIL
13	5	3	17	FAIL
19	7	11	10	FAIL
21	8	11	13	FAIL
23	9	11	7	FAIL
24	10	10	32	FAIL
27	11	7	8	FAIL
28	12	6	17	FAIL
30	13	6	14	FAIL
31	13	7	4	FAIL
34	15	6	36	FAIL
41	18	2	39	FAIL
42	19	1	4	FAIL
43	19	2	3	FAIL

Back

Clear

Student

Student Table

Student ID	Branch ID	Roll Number	Email	Password
1				f7ae4
2				c7256b
3				c72613
4				e63b50
5				a17288
6				e98e90
7				e63326
8				116ae
9				a72066

Back

Add

Delete

Modify

Add

Student id :

21

Roll no. :

2

E-mail :

aayu@mail.com

Password :

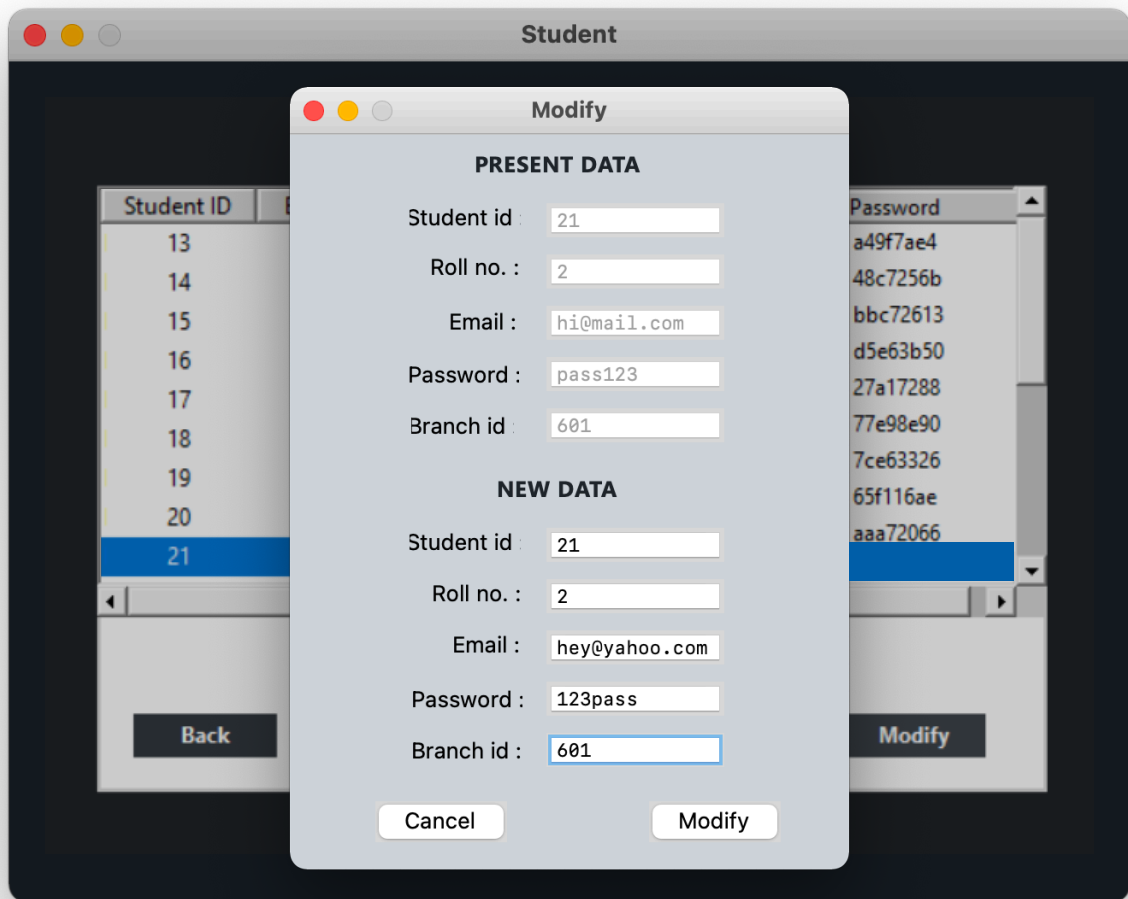
pass123

Branch id :

601

Back

Add



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