

## Answer 1

```
SELECT
es.user_id,
e.exam_name,
es.session_id,
(es.total_correct_answers * e.each_ques_mark) - (es.total_false_answers *
e.per_ques_negative_marking) AS actual_mark
FROM
`ms-464509.10ms.exam` AS e
JOIN
`ms-464509.10ms.exam_session` AS es
ON
es.exam_id = e.exam_id
LIMIT
1000
```

Query results [Save results](#) [Open in](#)

Job information	Results	Chart	JSON	Execution details	Execution graph
Row	user_id	exam_name	session_id	actual_mark	
1	623ad09bfb492fa5df2dc9d4	Class 10 - Monthly MCQ Exam - ...	67c56ad455f584a4862bff7c	27.5	
2	623a4e7cfb492fa5df1515a9	Class 10 - Monthly MCQ Exam - ...	67cd98fb1ca1a4ada7cc41e5	16.25	
3	623ad09bfb492fa5df2dc9d4	Class 10 - Monthly MCQ Exam - ...	67ee631c3db3b091e19c764f	26.25	
4	623ad09bfb492fa5df2dc9d4	Class 10 - Weekly MCQ Exam - F...	67b0800e64933092bedbb048	19.0	
5	623a4e7cfb492fa5df1515a9	Class 10 - Weekly MCQ Exam - F...	67bdcd59114ff5af1c21924	3.75	
6	623ad09bfb492fa5df2dc9d4	Class 10 - Weekly MCQ Exam - F...	67b71d1447fb3e15caedd73d	26.25	
7	623ad09bfb492fa5df2dc9d4	Class 10 - Weekly MCQ Exam - F...	67bedf9bab4fa6fb453d5d07	22.5	
8	623ad09bfb492fa5df2dc9d4	Class 10 - Weekly MCQ Exam - ...	67cc74c739f16a3bca394821	13.25	
9	623a4e7cfb492fa5df1515a9	Class 10 - Weekly MCQ Exam - ...	67cd9fef0208aa19a3ad0975	18.75	
10	623ad09bfb492fa5df2dc9d4	Class 10 - Weekly MCQ Exam - ...	67d82d0bdbda27c9426c596e	20.0	
11	623aac8dfb492fa5df282c3d	Class 10 - Weekly MCQ Exam - ...	67d6d6eadbda27c9425d0c85	22.5	
12	623ab3e3fb492fa5df295ca1	Monthly Exam 1 (MCQ)	679f6b9a3fd0b19f66c9d6f3	20.0	

Results per page: 50 1 - 50 of 1000

## **Answer 2**

```
SELECT
es.user_id,
e.exam_name,
(es.total_correct_answers * e.each_ques_mark) - (es.total_false_answers *
e.per_ques_negative_marking) AS actual_mark,
e.pass_mark,
CASE
WHEN ((es.total_correct_answers * e.each_ques_mark) - (es.total_false_answers *
e.per_ques_negative_marking)) >= e.pass_mark THEN 'PASS'
ELSE 'FAIL'
END
AS result_status
FROM
`ms-464509.10ms.exam` AS e
JOIN
`ms-464509.10ms.exam_session` AS es
ON
es.exam_id = e.exam_id
LIMIT
1000;
```

exam\_10ms

```

1 SELECT
2   es.user_id,

```

✓ This query will process 0 B when run.

Query results

Save results Open in

Job information	Results	Chart	JSON	Execution details	Execution graph
Row	user_id	exam_name	actual_mark	pass_mark	result_status
1	623ad09bf492fa5df2dc9d4	Class 10 - Monthly MCQ Exam - ...	27.5	12	PASS
2	623a4e7cfb492fa5df1515a9	Class 10 - Monthly MCQ Exam - ...	16.25	12	PASS
3	623ad09bf492fa5df2dc9d4	Class 10 - Monthly MCQ Exam - ...	17.5	12	PASS
4	623a4e7cfb492fa5df1515a9	Class 10 - Monthly MCQ Exam - ...	1.25	12	FAIL
5	623a8286fb492fa5df20bc1d	Class 10 - Monthly MCQ Exam - ...	10.0	12	FAIL
6	623ad09bf492fa5df2dc9d4	Class 10 - Monthly MCQ Exam - ...	28.75	12	PASS
7	623a4e7cfb492fa5df1515a9	Class 10 - Monthly MCQ Exam - ...	8.75	12	FAIL
8	623a5f0fb492fa5df196e94	Class 10 - Monthly MCQ Exam - ...	19.75	12	PASS
9	623aae0cfb492fa5df286b6f	Class 10 - Monthly MCQ Exam - ...	3.75	12	FAIL
10	623ab3e3fb492fa5df295ca1	Class 10 - Monthly MCQ Exam - ...	17.5	12	PASS
11	623acba8fb492fa5df2d0ba7	Class 10 - Monthly MCQ Exam - ...	14.0	12	PASS

Results per page: 50 1 - 50 of 1000

### Answer 3

```

SELECT
es.user_id,
e.exam_name,
(es.total_correct_answers * e.each ques_mark) - (es.total_false_answers *
e.per ques_negative_marking) AS actual_mark,
RANK() OVER (PARTITION BY es.exam_id ORDER BY (es.total_correct_answers * e.each ques_mark) -
(es.total_false_answers * e.per ques_negative_marking) DESC) AS RANK
FROM
`ms-464509.10ms.exam` AS e
JOIN
`ms-464509.10ms.exam_session` AS es
ON
es.exam_id = e.exam_id
QUALIFY
RANK <= 5;

```

Google Cloud 10MS Search (/) for resources, docs, products and more

Search BigQuery resources

ms-464509

Repositories

Queries

Notebooks

Data canvases

Data preparations

Pipelines

External connections

10ms

exam

exam\_10ms

exam\_session

bigquery-public-data

exam\_10ms

Run Save view Open in More

SELECT  
es.user\_id,  
...

This query will process 0 B when run.

Query results

Save results Open in

Row	user_id	exam_name	actual_mark	RANK
1	623ad1befb492fa5df2df54d	Class 10 - Weekly MOQ Exam - F...	25.0	1
2	623ad09fb492fa5df2dc9d4	Class 10 - Weekly MOQ Exam - F...	23.75	2
3	623a7385fb492fa5df1dc1c8	Class 10 - Weekly MOQ Exam - F...	23.75	2
4	623ad09fb492fa5df2dc9d4	Class 10 - Weekly MOQ Exam - F...	22.5	4
5	623acd24fb492fa5df264517	Class 10 - Weekly MOQ Exam - F...	22.5	4
6	623aada9fb492fa5df28bb20	Class 10 - Weekly MOQ Exam - F...	22.5	4
7	623ab51afb492fa5df298ed5	Class 10 - Weekly MOQ Exam - F...	22.5	4
8	623aa797fb492fa5df2759dd	Class 10 - Weekly MOQ Exam - F...	25.0	1
9	623ab72dfb492fa5df29e41b	Class 10 - Weekly MOQ Exam - F...	25.0	1
10	623a473fb492fa5df1315ad	Class 10 - Weekly MOQ Exam - F...	23.75	3
11	623acd24fb492fa5df264517	Class 10 - Weekly MOQ Exam - F...	23.75	3

Results per page: 50 1 - 50 of 93

Repository Preview Job history Refresh

## Answer 4

```

SELECT
es.user_id,
e.exam_name,
(es.total_correct_answers * e.each_ques_mark) - (es.total_false_answers *
e.per_ques_negative_marking) AS actual_mark,
es.user_exam_ends_at,
LAG(((es.total_correct_answers * e.each_ques_mark) - (es.total_false_answers *
e.per_ques_negative_marking))) OVER (PARTITION BY es.user_id ORDER BY es.user_exam_starts_at)
AS previous_actual_mark,
CASE
WHEN LAG(((es.total_correct_answers * e.each_ques_mark) - (es.total_false_answers *
e.per_ques_negative_marking))) OVER (PARTITION BY es.user_id ORDER BY es.user_exam_starts_at) IS
NULL THEN NULL
WHEN ((es.total_correct_answers * e.each_ques_mark) - (es.total_false_answers *
e.per_ques_negative_marking)) > LAG(((es.total_correct_answers * e.each_ques_mark) -
(es.total_false_answers * e.per_ques_negative_marking))) OVER (PARTITION BY es.user_id ORDER BY
es.user_exam_starts_at) THEN 'Improved'

```

```

WHEN ((es.total_correct_answers * e.each_ques_mark) - (es.total_false_answers *
e.per_ques_negative_marking)) < LAG(((es.total_correct_answers * e.each_ques_mark) -
(es.total_false_answers * e.per_ques_negative_marking))) OVER (PARTITION BY es.user_id ORDER BY
es.user_exam_starts_at) THEN 'Declined'

ELSE 'Same'

END

AS performance_trend

FROM

`ms-464509.10ms.exam` AS e

JOIN

`ms-464509.10ms.exam_session` AS es

ON

es.exam_id = e.exam_id;

```

Google Cloud 10MS Search (/) for resources, docs, products and more

Sendbox Set up billing to upgrade to the full BigQuery experience. [Learn more](#) Dismiss Upgrade

Explorer + Add data

Search BigQuery resources

Show starred only

- ms-464509
  - Repositories
  - Queries
  - Notebooks
  - Data canvases
  - Data preparations
  - Pipelines
  - External connections
  - 10ms
    - exam
    - exam\_10ms**
    - exam\_session
  - bigquery-public-data

exam\_10ms

1 SELECT

✓ This query will process 0 B when run.

Query results

Job information Results Chart JSON Execution details Execution graph

exam_name	actual_mark	user_exam_ends_at	previous_actual...	performance_trend
Class 10 - Monthly MCQ Exam - ...	13.75	2025-03-01 13:08:58.192000 UTC	null	null
Class 10 - Weekly MCQ Exam - ...	15.0	2025-03-08 13:38:37.026000 UTC	13.75	Improved
Class 10 - Weekly MCQ Exam - ...	15.0	2025-03-16 05:55:55.905000 UTC	15.0	Same
Class 10 - Monthly MCQ Exam - ...	0.0	2025-03-22 15:56:34.415000 UTC	15.0	Declined
Class 10 - Monthly MCQ Exam - ...	0.0	2025-03-23 13:28:54.163000 UTC	0.0	Same
Class 10 - Monthly MCQ Exam - ...	22.5	2025-03-23 13:49:37.066000 UTC	0.0	Improved
Class 10 - Weekly MCQ Exam - ...	21.5	2025-04-13 11:42:58.924000 UTC	22.5	Declined
Class 10 - Weekly MCQ Exam - ...	10.0	2025-04-20 12:12:59.103000 UTC	21.5	Declined
Class 10 - Weekly MCQ Exam - ...	0.0	2025-04-26 13:03:26.881000 UTC	10.0	Declined
ਸ਼ਾਹੀਦ ਗੁਰਪ੍ਰੀਤ ਸਿੰਘ - ...	17.5	2025-01-27 09:55:57.616000 UTC	null	null
Monthly Exam 1 (MCQ)	18.75	2025-02-01 12:59:51.620000 UTC	17.5	Improved
Class 10 - Weekly MCQ Exam - F...	20.0	2025-02-08 14:54:23.051000 UTC	18.75	Improved

Results per page: 50 1 - 50 of 1823 Refresh

Repository Preview Job history