

SQL Approach	Without index	With index
IN	82	19
OR	39	20
LIKE	13	12
UNION	100	15

Find queries associated with this assignment

<u>query_id</u>	<u>query_desc</u>	<u>query_dur</u>
3125	Create Index on query table	0.0139
3129	Select all queries using UNION Clause with Index	0.0015
3128	Select all queries using LIKE Clause with Index	0.0012
3126	Select all queries using IN clause with Index	0.0019
3127	Select all queries using OR clause with Index	0.0020
3124	Select all queries using UNION Clause without Index	0.0100
3120	Drop Index on query table	0.0114
3122	Select all queries using OR clause without Index	0.0039
3121	Select all queries using IN clause without Index	0.0082
3123	Select all queries using LIKE Clause without Index	0.0013

```

1  /*Select all queries using IN clause without index*/
2  select count(*) as count from query where query_assn in
3  ('Assignment3', 'Assignment4', 'Assignment5', 'Assignment6', 'Assignment7',
4  'Assignment8', 'Assignment9', 'Assignment10', 'Assignment11');

```

64:4

Tabular Explain

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered
1	SIMPLE	query		range	idx_query_assignment	idx_query_assignment	122		726	100.00



Query Stats



Execution Plan

```

1  /*Select all queries using OR clause without index*/
2  select count(*) as count from query where
3  query_assn = 'Assignment3' or
4  query_assn = 'Assignment4' or
5  query_assn = 'Assignment5' or
6  query_assn = 'Assignment6' or
7  query_assn = 'Assignment7' or
8  query_assn = 'Assignment8' or
9  query_assn = 'Assignment9' or
10 query_assn = 'Assignment10' or
11 query_assn = 'Assignment11';

```

29:11

Tabular Explain

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered
1	SIMPLE	query		range	idx_query_assignment	idx_query_assignment	122		726	100.00



Query Stats



Execution Plan

```
1  /*Select all queries using LIKE clause without index*/
2  select count(*) as count from query where query_assn like 'Assignment %';
```

↕

74:2

Tabular Explain

⌵

id	select_type	table	partitions	type	possible_keys	key	key_l...	ref	rows	filtered
1	SIMPLE	query		range	idx_query_assignment	idx_query_assignment	122		566	100.00

Query Stats

Execution Plan

```
1  --select all queries using 'JOIN' clause without indexes
2  select sum(c) as count from
3  (select count(*) as c from query where query_assn = 'Assignment3'
4   union
5   select count(*) as c from query where query_assn = 'Assignment4'
6   union
7   select count(*) as c from query where query_assn = 'Assignment5'
8   union
9   select count(*) as c from query where query_assn = 'Assignment6'
10  union
11  select count(*) as c from query where query_assn = 'Assignment7'
12  union
13  select count(*) as c from query where query_assn = 'Assignment8'
14  union
15  select count(*) as c from query where query_assn = 'Assignment9'
16  union
17  select count(*) as c from query where query_assn = 'Assignment10'
18  union
19  select count(*) as c from query where query_assn = 'Assignment11')
20  as counts;
```

50% 11:20

Tabular Explain

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered
1	PRIMARY	<derived2>		ALL					9	100.00
2	DERIVED	query		ref	idx_query_assignment	idx_query_assignment	122	const	78	100.00
3	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	331	100.00
4	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
5	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
6	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
7	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
8	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	92	100.00
9	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	220	100.00
10	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
11	UNION RESULT	<union2,3,4,5,...		ALL					0	

Result Grid

Form Editor

Field Types

Query Stats


```
1  /*Select all queries using OR clause with index*/
2  select count(*) as count from query where
3  query_assn = 'Assignment3' or
4  query_assn = 'Assignment4' or
5  query_assn = 'Assignment5' or
6  query_assn = 'Assignment6' or
7  query_assn = 'Assignment7' or
8  query_assn = 'Assignment8' or
9  query_assn = 'Assignment9' or
10 query_assn = 'Assignment10' or
11 query_assn = 'Assignment11';
```

100% 29:11

Tabular Explain

id	select_type	table	partitions	type	possible_keys	key	key_len	ref	rows	filtered
1	SIMPLE	query		range	idx_query_assignment	idx_query_assignment	122		726	100.00

Form Editor

Field Types

Query Stats

Execution Plan


```
1 /select all queries using (BIM) clause with index/
2 select sum(c) as count from
3 (select count(*) as c from query where query_assn = 'Assignment3'
4 union
5 select count(*) as c from query where query_assn = 'Assignment4'
6 union
7 select count(*) as c from query where query_assn = 'Assignment5'
8 union
9 select count(*) as c from query where query_assn = 'Assignment6'
10 union
11 select count(*) as c from query where query_assn = 'Assignment7'
12 union
13 select count(*) as c from query where query_assn = 'Assignment8'
14 union
15 select count(*) as c from query where query_assn = 'Assignment9'
16 union
17 select count(*) as c from query where query_assn = 'Assignment10'
18 union
19 select count(*) as c from query where query_assn = 'Assignment11')
20 as counts
```

50% 11:20

Tabular Explain

id	select_type	table	partitions	type	possible_keys	key	key_j...	ref	rows	filtered
1	PRIMARY	<derived2>		ALL					9	100.00
2	DERIVED	query		ref	idx_query_assignment	idx_query_assignment	122	const	78	100.00
3	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	331	100.00
4	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
5	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
6	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
7	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
8	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	92	100.00
9	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	220	100.00
10	UNION	query		ref	idx_query_assignment	idx_query_assignment	122	const	1	100.00
11	UNION RESULT	<union2,3,4,5,...		ALL					0	

Result 98

Read Only

Form Editor

Field Types

Query Stats

Execution Plan