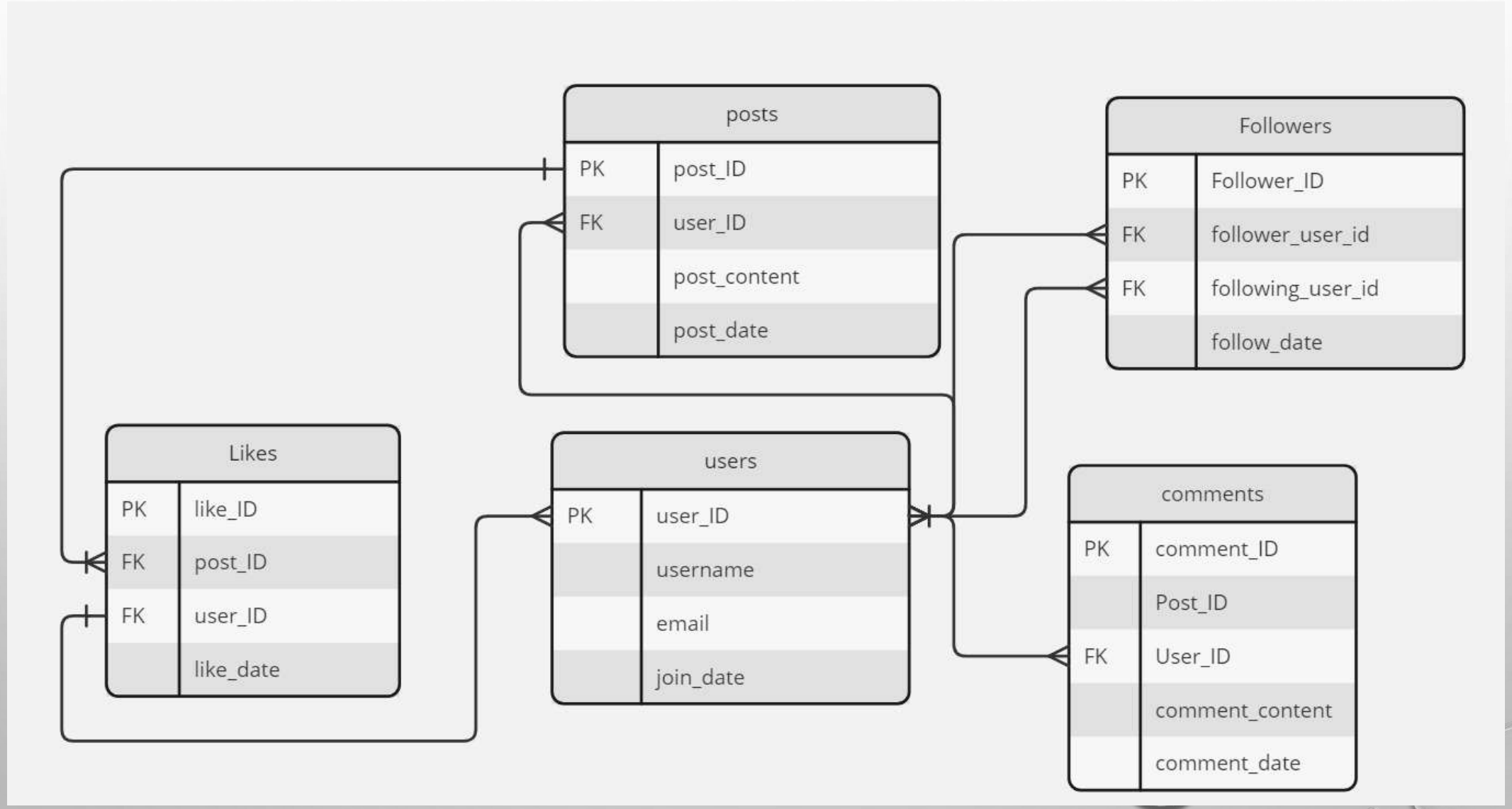
SOCIAL_MEDIA_ANALYTICS

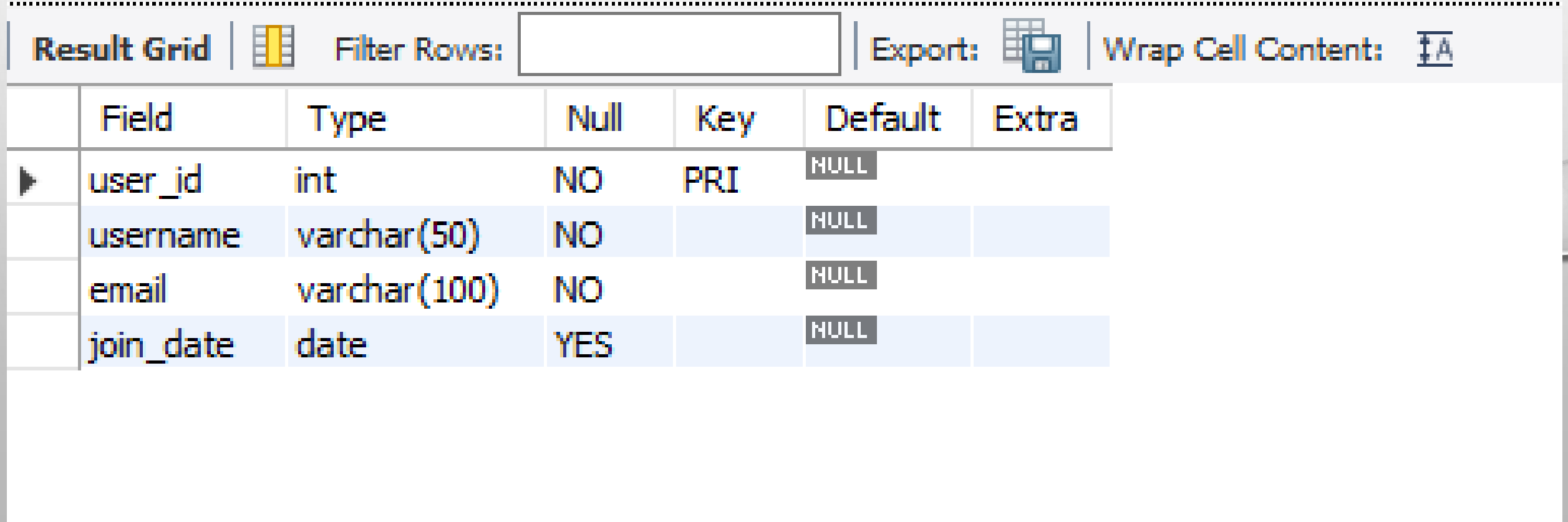
ER DIAGRAM


posts
PK
post_ID
FK
user_ID
post_content
post_date
Followers
PK
Follower_ID
FK
follower_user_id
FK
following_user_id
follow_date
Likes
PK
like_ID
FK
post_ID
FK
user_ID
like_date
users
PK
user_ID
username
email
join_date
comments
PK
comment_ID
Post_ID
FK
User_ID
comment_content
comment_date

STRUCTURE OF THE TABLE

USERS TABLE

Syntax: desc users;

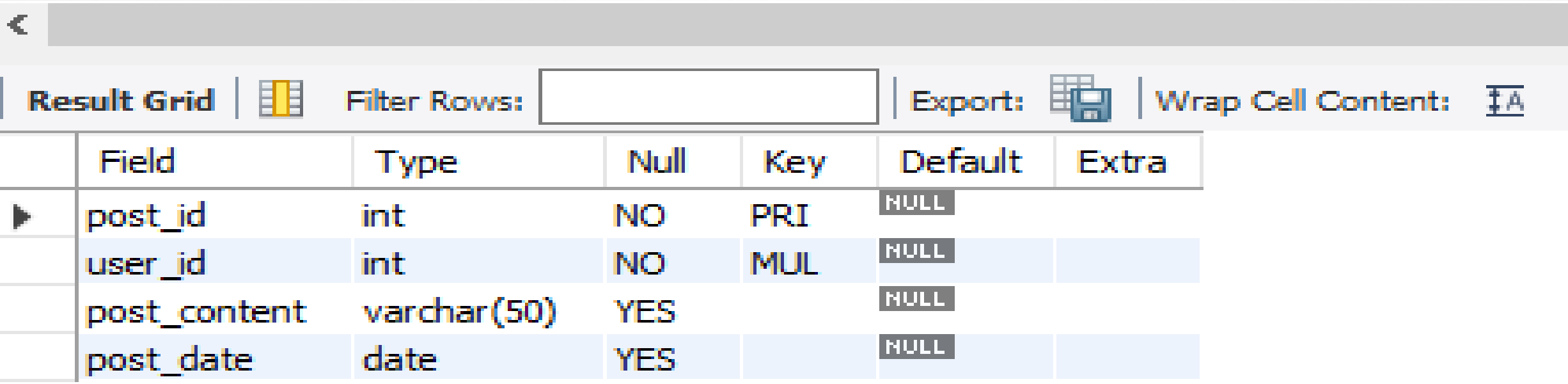


Field	Type	Null	Key	Default	Extra
user_id	int	NO	PRI	NULL	
username	varchar(50)	NO		NULL	
email	varchar(100)	NO		NULL	
join_date	date	YES		NULL	

STRUCTURE OF THE TABLE

POSTS TABLE

Syntax: desc posts;



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
post_id	int	NO	PRI	NULL	
user_id	int	NO	MUL	NULL	
post_content	varchar(50)	YES		NULL	
post_date	date	YES		NULL	

STRUCTURE OF THE TABLE

COMMENTS TABLE

Syntax: desc comments;

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
comment_id	int	NO	PRI	NULL	
post_id	int	NO	MUL	NULL	
user_id	int	NO	MUL	NULL	
comment_content	varchar(50)	YES		NULL	
comment_date	date	YES		NULL	

STRUCTURE OF THE TABLE

LIKES TABLE

Syntax: desc likes;

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

	Field	Type	Null	Key	Default	Extra
▶	like_id	int	NO	PRI	NULL	
	post_id	int	NO	MUL	NULL	
	user_id	int	NO	MUL	NULL	
	like_date	date	YES		NULL	

STRUCTURE OF THE TABLE

FOLLOWERS TABLE
Syntax: desc followers;

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
follower_id	int	NO	PRI	NULL	
follower_user_id	int	NO	MUL	NULL	
following_user_id	int	NO	MUL	NULL	
follow_date	date	YES		NULL	

CONTENTS OF THE TABLE

USERS TABLE

Syntax: select * from users;

Result Grid | Filter Rows: | Edit: | Export/Impo

user_id	username	email	join_date
1	Anthony	anthony135@gmail.com	2023-01-01
2	Albert	albert013@gmail.com	2023-01-05
3	Melwyn	melwin07@gmail.com	2023-01-10
4	Magnes	Magnes13@gmail.com	2023-01-15
5	Benno	benno10@gmail.com	2023-01-20
6	Shivaram	shivaram01@gmail.com	2023-01-25
7	Frankinn	frankinn06@gmail.com	2023-01-30
8	Alan	alan10@gmail.com	2023-02-01
9	Kishore	kishore12@gmail.com	2023-02-05
10	Gokul	gokul23@gmail.com	2023-02-10
NULL	NULL	NULL	NULL

CONTENT OF THE TABLE

POSTS TABLE

Syntax: select * from posts;

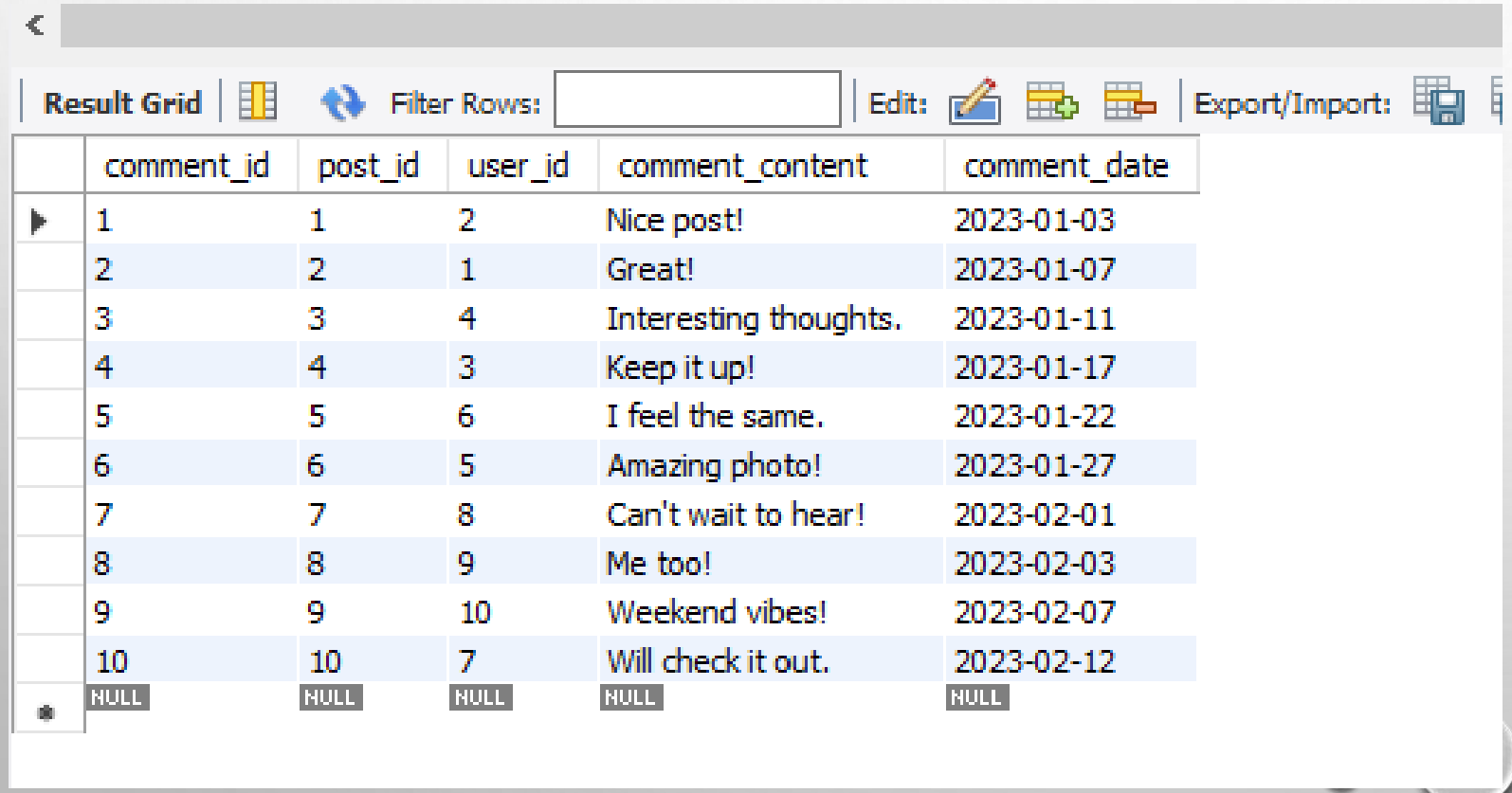
Result Grid | Filter Rows: | Edit: | Export/Import:

post_id	user_id	post_content	post_date
1	1	This is my first post!	2023-01-02
2	2	Hello world!	2023-01-06
3	3	Just sharing some thoughts.	2023-01-10
4	4	New day, new post!	2023-01-16
5	5	Feeling inspired today.	2023-01-21
6	6	Check out this amazing photo!	2023-01-26
7	7	Excited to share some news!	2023-01-31
8	8	Reflecting on the past week.	2023-02-02
9	9	Looking forward to the weekend!	2023-02-06
10	10	Just posted a new blog entry.	2023-02-11
NULL	NULL	NULL	NULL

CONTENT OF THE TABLE

COMMENTS TABLE

Syntax: select * from comments;

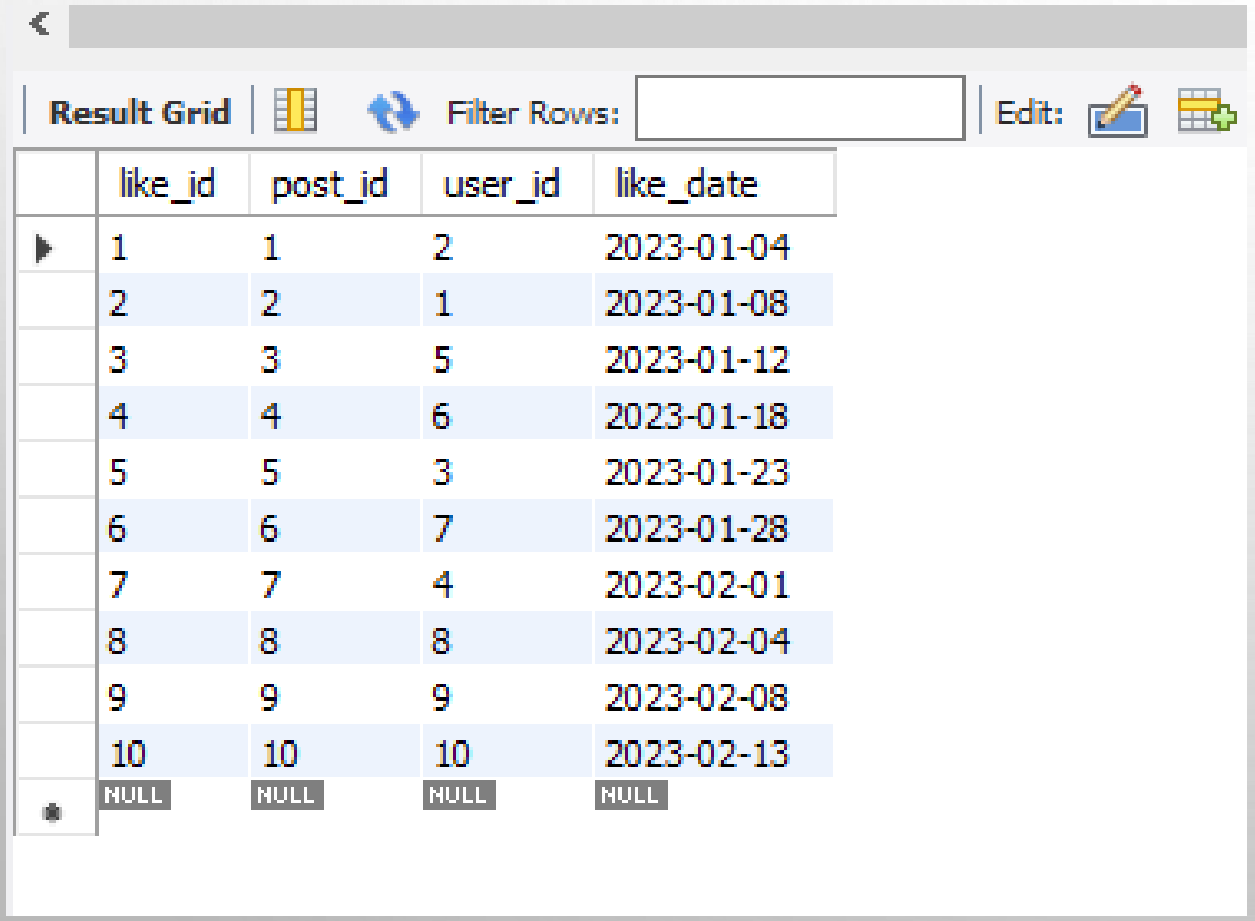


comment_id	post_id	user_id	comment_content	comment_date
1	1	2	Nice post!	2023-01-03
2	2	1	Great!	2023-01-07
3	3	4	Interesting thoughts.	2023-01-11
4	4	3	Keep it up!	2023-01-17
5	5	6	I feel the same.	2023-01-22
6	6	5	Amazing photo!	2023-01-27
7	7	8	Can't wait to hear!	2023-02-01
8	8	9	Me too!	2023-02-03
9	9	10	Weekend vibes!	2023-02-07
10	10	7	Will check it out.	2023-02-12
NULL	NULL	NULL	NULL	NULL

CONTENT OF THE TABLE

LIKES TABLE

Syntax: select * from likes;



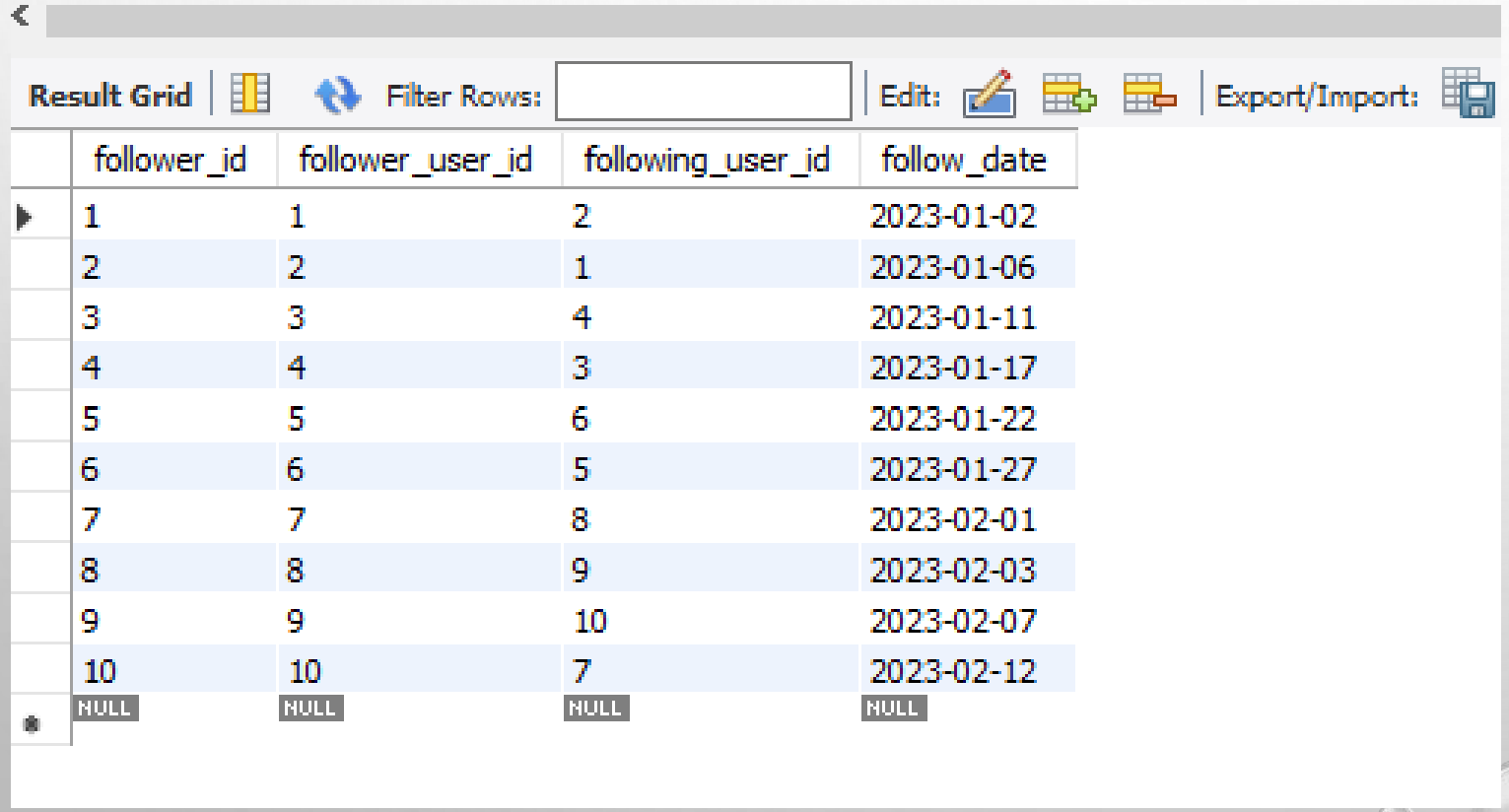
Result Grid | Filter Rows: | Edit:

like_id	post_id	user_id	like_date
1	1	2	2023-01-04
2	2	1	2023-01-08
3	3	5	2023-01-12
4	4	6	2023-01-18
5	5	3	2023-01-23
6	6	7	2023-01-28
7	7	4	2023-02-01
8	8	8	2023-02-04
9	9	9	2023-02-08
10	10	10	2023-02-13
NULL	NULL	NULL	NULL

CONTENT OF THE TABLE

FOLLOWERS TABLE

Syntax: select * from followers;



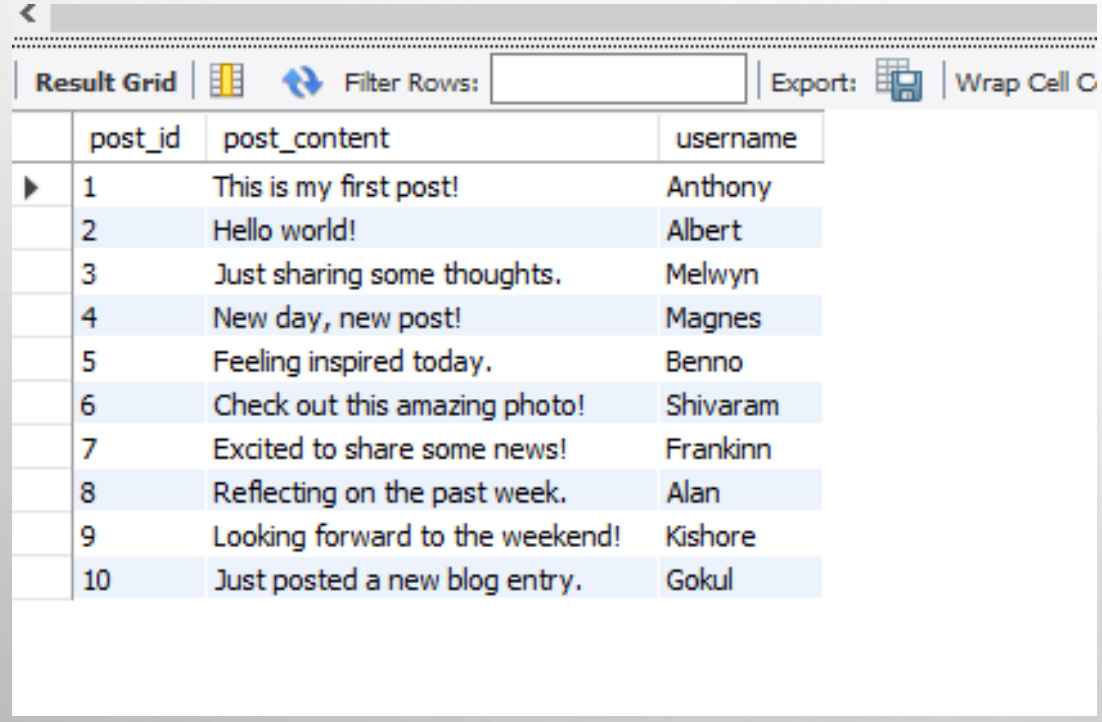
Result Grid | Filter Rows: | Edit: | Export/Import:

follower_id	follower_user_id	following_user_id	follow_date
1	1	2	2023-01-02
2	2	1	2023-01-06
3	3	4	2023-01-11
4	4	3	2023-01-17
5	5	6	2023-01-22
6	6	5	2023-01-27
7	7	8	2023-02-01
8	8	9	2023-02-03
9	9	10	2023-02-07
10	10	7	2023-02-12
NULL	NULL	NULL	NULL

JOINS

TO Get all posts along with their authors' usernames

SYNTAX:SELECT Posts.post_id, Posts.post_content, Users.usernameFROM PostsJOIN Users ON Posts.user_id = Users.user_id;

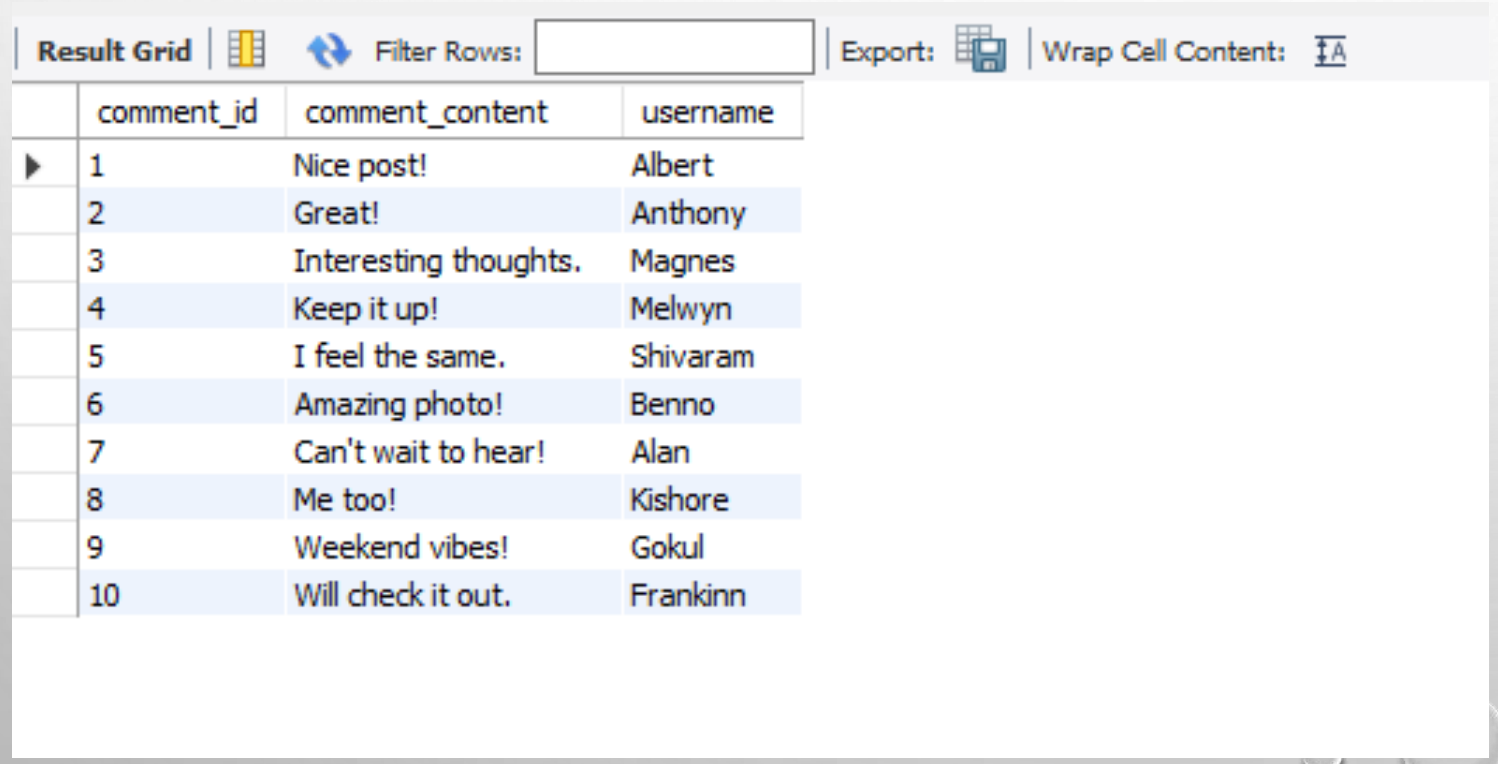


post_id	post_content	username
1	This is my first post!	Anthony
2	Hello world!	Albert
3	Just sharing some thoughts.	Melwyn
4	New day, new post!	Magnes
5	Feeling inspired today.	Benno
6	Check out this amazing photo!	Shivaram
7	Excited to share some news!	Frankinn
8	Reflecting on the past week.	Alan
9	Looking forward to the weekend!	Kishore
10	Just posted a new blog entry.	Gokul

JOINS

To Get all comments along with the usernames of the users who made them

SYNTAX:SELECT Comments.comment_id, Comments.comment_content, Users.usernameFROM CommentsJOIN Users ON Comments.user_id = Users.user_id;



comment_id	comment_content	username
1	Nice post!	Albert
2	Great!	Anthony
3	Interesting thoughts.	Magnes
4	Keep it up!	Melwyn
5	I feel the same.	Shivaram
6	Amazing photo!	Benno
7	Can't wait to hear!	Alan
8	Me too!	Kishore
9	Weekend vibes!	Gokul
10	Will check it out.	Frankinn

JOINS

To Get all comments along with the usernames of the users who made them

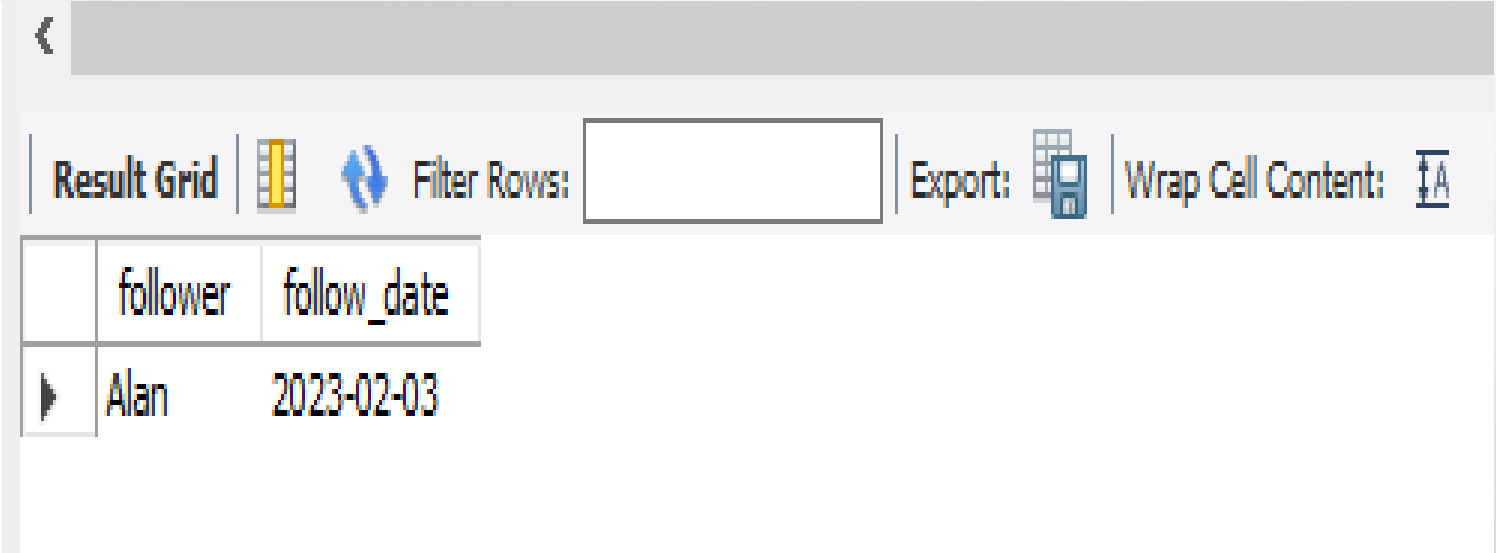
SYNTAX:SELECT Comments.comment_id, Comments.comment_content, Users.usernameFROM CommentsJOIN Users ON Comments.user_id = Users.user_id;

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

post_id	post_content	like_count
1	This is my first post!	1
2	Hello world!	1
3	Just sharing some thoughts.	1
4	New day, new post!	1
5	Feeling inspired today.	1
6	Check out this amazing photo!	1
7	Excited to share some news!	1
8	Reflecting on the past week.	1
9	Looking forward to the weekend!	1
10	Just posted a new blog entry.	1

JOINS

To Get all followers for a particular user
SYNTAX:SELECT Users.username AS follower,
Followers.follow_dateFROM FollowersJOIN Users ON
Followers.follower_user_id = Users.user_idWHERE
Followers.following_user_id = 9;



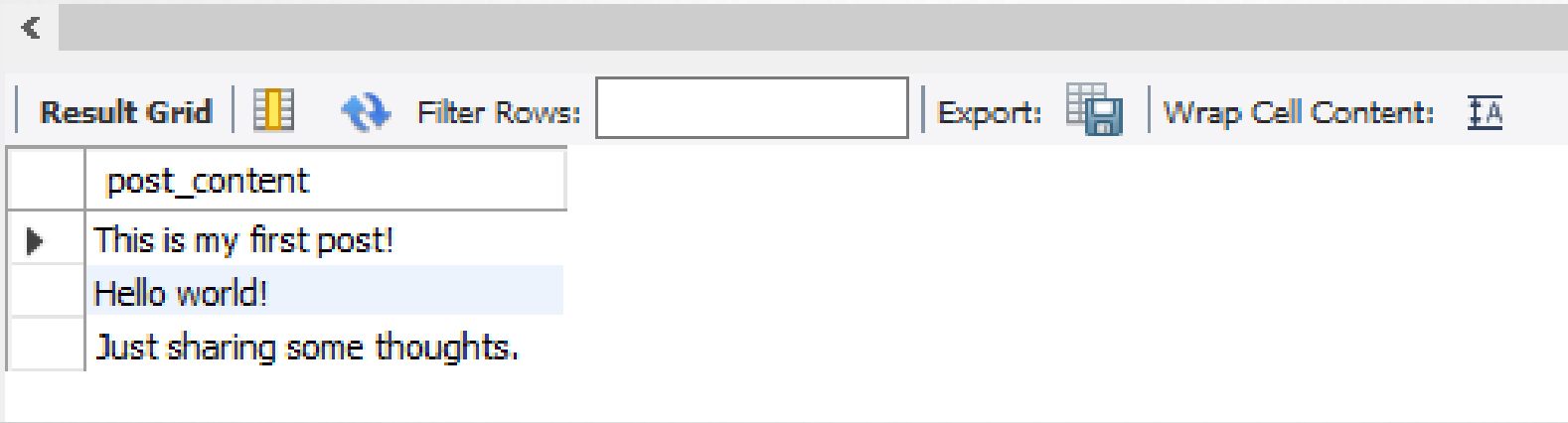
SUB QUERY

To Get all users who commented on posts made by user with user_id = 1

SYNTAX:SELECT usernameFROM UsersWHERE user_id IN (SELECT user_id FROM Comments WHERE post_id IN (SELECT post_id FROM Posts WHERE user_id = 5));

SUB QUERY

To Get all posts liked by users who joined before a certain date
SYNTAX:SELECT post_contentFROM PostsWHERE user_id IN (SELECT user_id FROM Likes WHERE user_id IN (SELECT user_id FROM Users WHERE join_date < '2023-01-15'));



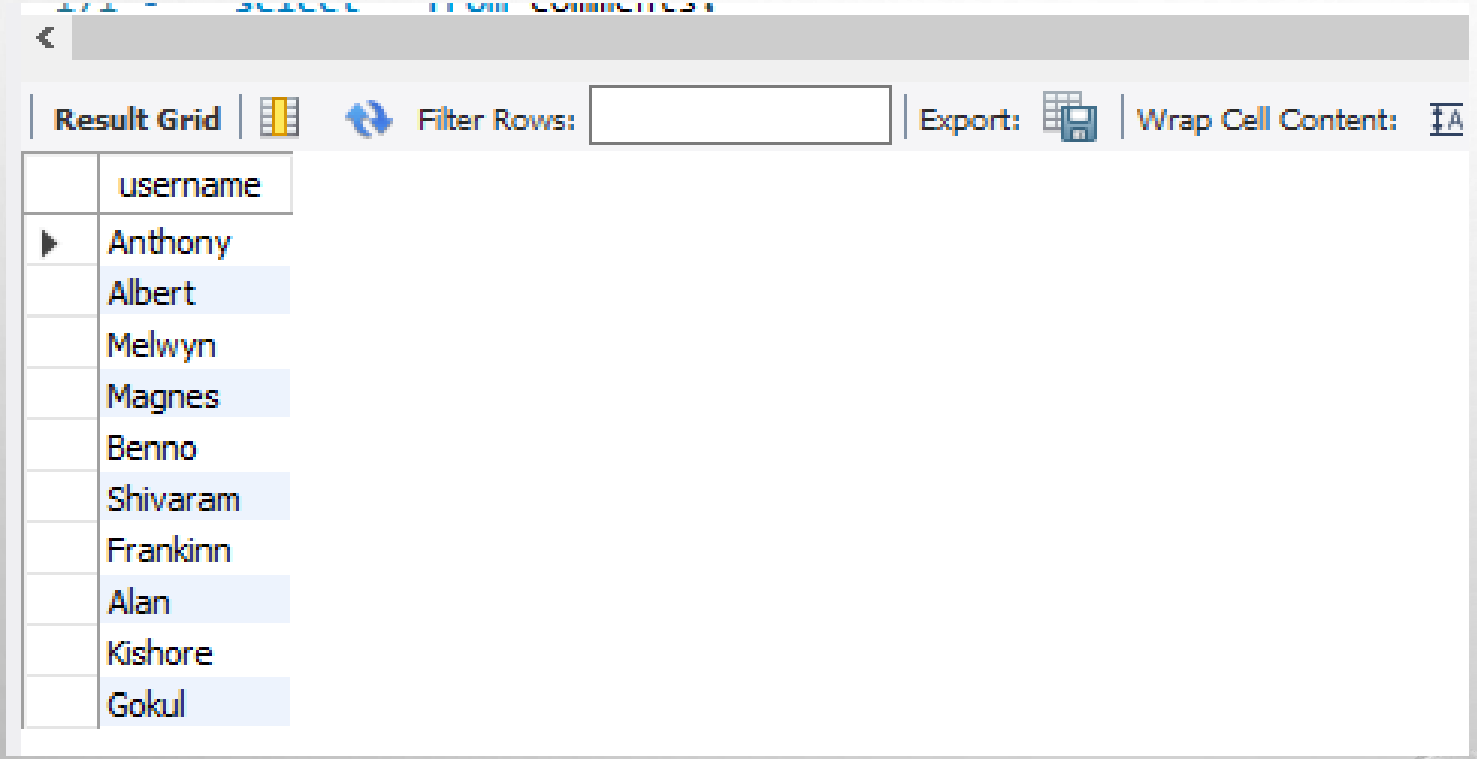
SUB QUERY

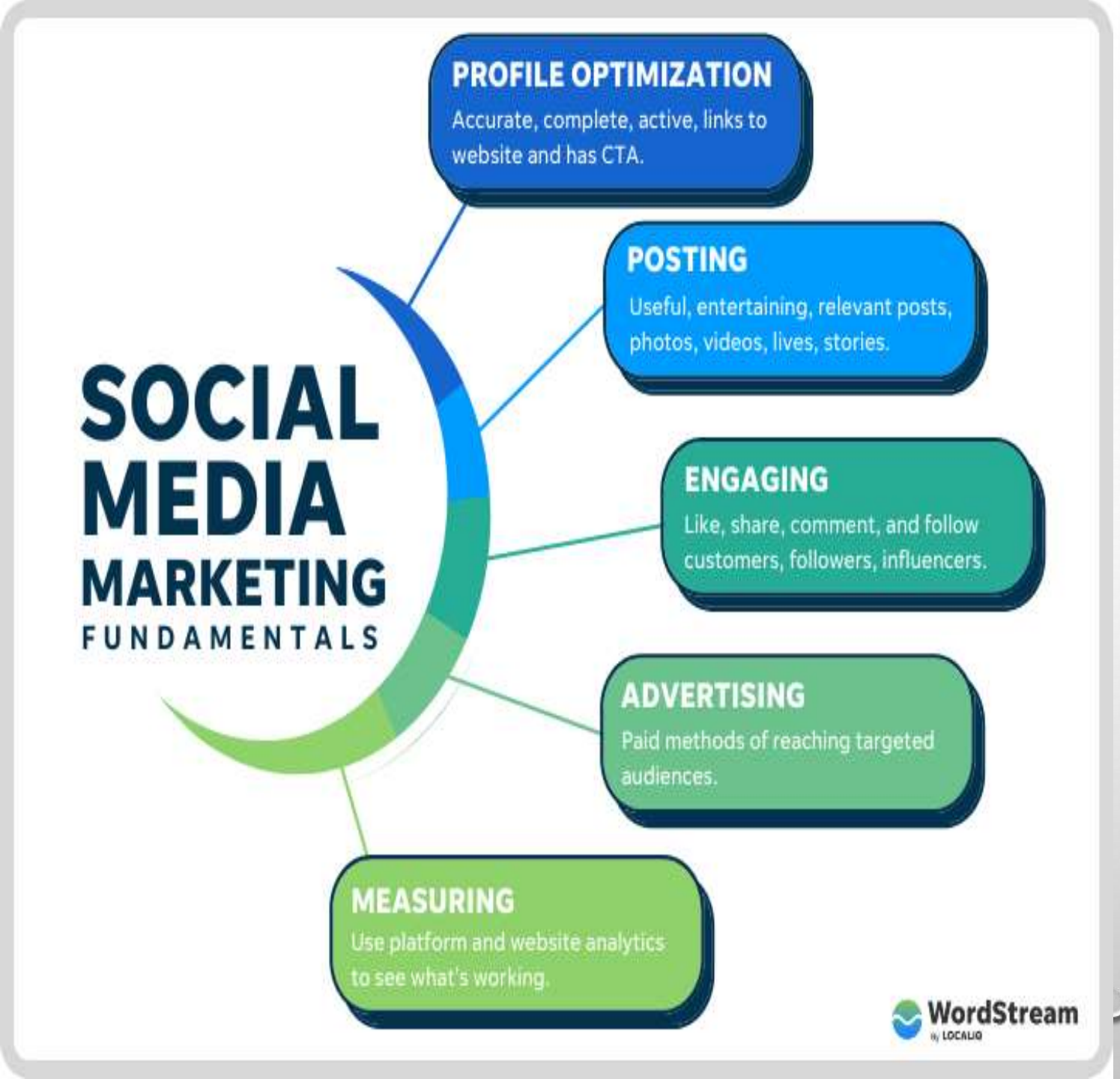
To Get all posts made by users followed by user with user_id = 2

SYNTAX:SELECT post_contentFROM PostsWHERE user_id IN (SELECT following_user_id FROM Followers WHERE follower_user_id = 2);

SUB QUERY

To Get the usernames of users who have posted at least once
SYNTAX:SELECT usernameFROM UsersWHERE EXISTS (
SELECT 1 FROM Posts WHERE Posts.user_id =
Users.user_id);





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