

Project

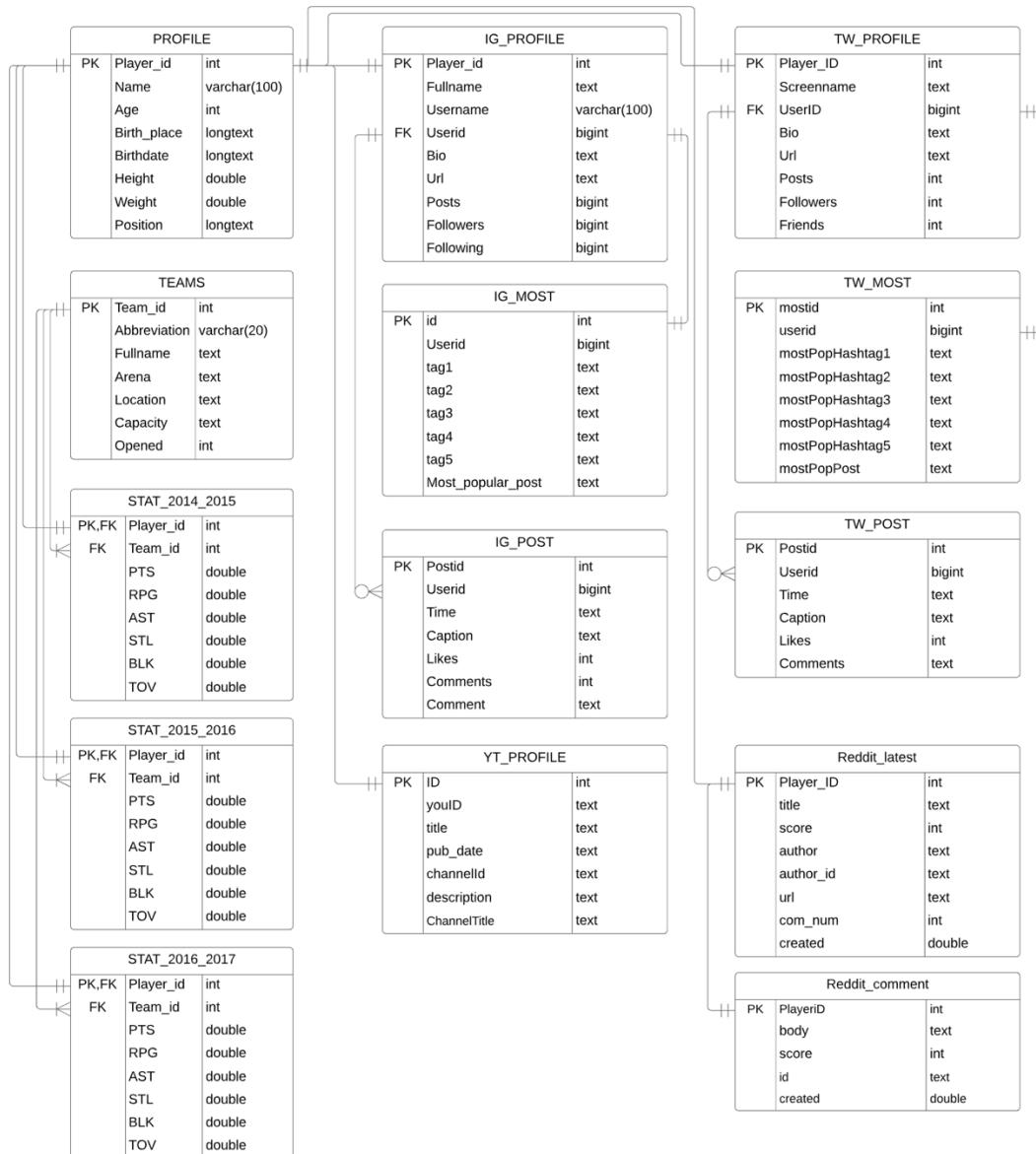
NBA Player's statistics & social medias

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Abstract

The topic is about NBA players' personal information (Name, Age, Height, Weight...etc.) and statistics of regular season (PTS, RPG...etc.) which are scraped from the Internet (NBA official website, ESPN.com, Kaggle), and also including the social media (Instagram, Twitter, YouTube, Reddit) data at this time. The basic conceptual model with the relationships of each entity is represented on ER diagrams. In addition, the SQL database for NBA data will be built for the user to search, providing some user cases to identify such database can be queried. Our database not only can be used to analyze the performance of each player and predict their following performance, but also can help to analyze their life through different social media.

ER diagrams



What we have done to establish the database

1. Used web scraper to get data from website to create 4 tables:
 - Profile table include information(Profile): Player_id, Name, Age, Birth_place, Birthdate, Height, Weight, Position
 - Other three tables include information(Stat): Player_id, Team_id, PTS, RPG, AST, STL, BLK, TOV.
2. Used social media API to get data from 4 API (Twitter API ,Youtube API, Reddit API, Instagram API).
 - Created tables related to Twitter API: “TW_PROFILE”, “TW_MOST”, “TW_POST”
 - Created tables related to Youtube API: “YT_PROFILE”
 - Created tables related to Reddit API: “Reddit_latest”, “Reddit_comment”
 - Created tables related to Instagram API: “IG_PROFILE”, “IG_MOST”, “IG_POST”
3. Stored tables as CSV file
 - Import such CSV files into MySQL database
 - Connected tables with each other with primary key and foreign key

Questions

1. What are people saying about me?

Query the latest comment.

```

CREATE
    ALGORITHM = UNDEFINED
    DEFINER = `root`@`localhost`
    SQL SECURITY DEFINER
VIEW `sample2`.`q1` AS
SELECT
    `sample2`.`profile`.`Name` AS `PlayerName`,
    `sample2`.`ig_post`.`Comment` AS `Instagram_Comment`,
    `sample2`.`twitter_post`.`Comments` AS `Twitter_Comment`,
    `sample2`.`reddit_comment`.`body` AS `Reddit_Comment`
FROM
    ((((`sample2`.`profile`
    JOIN `sample2`.`ig_profile` ON ((`sample2`.`ig_profile`.`Player_id` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`ig_post` ON ((`sample2`.`ig_post`.`Userid` = `sample2`.`ig_profile`.`Userid`)))
    JOIN `sample2`.`twitter_profile` ON ((`sample2`.`twitter_profile`.`Player_ID` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`twitter_post` ON ((`sample2`.`twitter_post`.`Userid` = `sample2`.`twitter_profile`.`UserID`)))
    JOIN `sample2`.`reddit_comment` ON ((`sample2`.`reddit_comment`.`PlayerID` = `sample2`.`profile`.`Player_id`)))

```

PlayerName	Instagram_Comment	Twitter_Comment	Reddit_Comment
Al Horford	🔥🔥	No comments	Kyrie has not played a game in Cleveland since..
Andrew Bogut	You're a beast 🎉	@andrewbogut 50	This kid was touted the next lebron coming out...
Anthony Morrow	Awe sweet baby!! Congrats🎉❤️	No comments	That's all-time summer league scoring champio...
Anthony Morrow	@handsome_rhdrob253 flw me	No comments	That's all-time summer league scoring champio...
Cameron Birstow	Congrats D!!	@Quietsorm_32 Been like that since they cam...	This isn't an accident, Zion park actually is expe...
Chris Bosh	Playa 🎉🎉🎉	No comments	Dreading solo battles next week lol featured opp.
Chris Bosh	RIP freaking City!	No comments	Dreading solo battles next week lol featured opp.
Corey Brewer	La emoción en esa cancha a otro nivel desp de...	No comments	**Replays/alternate angles** *I..
Devyn Marble	MAKE + \$ 5000 + OVERNIGHT + NO MON...	No comments	According to Wind, that puts the roster for camp..
Devyn Marble	Total?	No comments	According to Wind, that puts the roster for camp..
Doug McDermott	That's what it's all about bro find your peace	No comments	I'd rather convert Dwight Buycks to Stanley Nick..
Gerald Henderson	Wowww!!!... You have some hecka strong gene...	No comments	that video of him was eating popeyes in the tie..
Isaiah Thomas	haha he's so cute ❤️	@SiP03 N you said it's going to games 7. Smh	Yeah, well, Lakers are without LeBron James, J..
JaMychal Green	@flave3 i'm gonna watch this one	No comments	Ooh scandalous
Jeremy Evans	🏀🏀🏀🏀	No comments	**Replays/alternate angles** *I..

2. How viral are my post?

Calculate the ratio of followers and Likes+comments.

```

CREATE
    ALGORITHM = UNDEFINED
    DEFINER = `root`@`localhost`
    SQL SECURITY DEFINER
VIEW `sample2`.`q2` AS
SELECT
    `sample2`.`profile`.`Name` AS `PlayerName`,
    `sample2`.`ig_post`.`Postid` AS `IG_post_id`,
    `sample2`.`ig_post`.`Likes` AS `Instagram_Likes`,
    `sample2`.`ig_profile`.`Followers` AS `Instagram_Followers`,
    ((`sample2`.`ig_post`.`Likes` / `sample2`.`ig_profile`.`Followers`) * 100) AS `IG_Viral(%)`,
    `sample2`.`twitter_post`.`postid` AS `TW_post_id`,
    `sample2`.`twitter_post`.`Likes` AS `Twitter_Likes`,
    `sample2`.`twitter_profile`.`Followers` AS `Twitter_Followers`,
    ((`sample2`.`twitter_post`.`Likes` / `sample2`.`twitter_profile`.`Followers`) * 100) AS `TW_Viral(%)`
FROM
    ((((`sample2`.`profile`
    JOIN `sample2`.`ig_profile` ON ((`sample2`.`ig_profile`.`Player_id` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`ig_post` ON ((`sample2`.`ig_post`.`Userid` = `sample2`.`ig_profile`.`Userid`)))
    JOIN `sample2`.`twitter_profile` ON ((`sample2`.`twitter_profile`.`Player_ID` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`twitter_post` ON ((`sample2`.`twitter_post`.`Userid` = `sample2`.`twitter_profile`.`UserID`)))

```

PlayerName	IG_post_id	Instagram_Likes	Instagram_Followers	IG_Viral(%)	TW_post_id	Twitter_Likes	Twitter_Followers	TW_Viral(%)
Al Horford	1	1102	40824	2.6994	3	6550	336830	1.9446
Andrew Bogut	3	2658	87999	3.0205	14	1291	381472	0.3384
Anthony Morrow	4	24130	2533470	0.9524	18	0	100702	0.0000
Anthony Morrow	5	14838	2533470	0.5857	18	0	100702	0.0000
Cameron Bairstow	8	2054	51142	4.0163	34	7	12324	0.0568
Chris Bosh	9	2882	188626	1.5279	43	0	2794349	0.0000
Chris Bosh	10	30449	188626	16.1425	43	0	2794349	0.0000
Corey Brewer	11	6391	365325	1.7494	51	361	78967	0.4572
Devyn Marble	13	1122	51861	2.1635	71	0	29527	0.0000
Devyn Marble	14	2197	51861	4.2363	71	0	29527	0.0000
Doug McDermott	15	41769	2924821	1.4281	77	0	152862	0.0000
Gerald Henderson	18	34756	710123	4.8944	94	679	45220	1.5015
Isaiah Thomas	19	4278	775580	0.5516	105	23	1614499	0.0014
JaMychal Green	20	13652	744789	1.8330	114	36664	15413	237.8771
Jeremy Evans	24	3053	46923	6.5064	125	3	33266	0.0090

3. What posts are likely to be interesting to me?

Players who is in your team.

```

CREATE
    ALGORITHM = UNDEFINED
    DEFINER = `root`@`localhost`
    SQL SECURITY DEFINER
VIEW `sample2`.`q3&q5` AS
SELECT
    `sample2`.`profile`.`Name` AS `PlayerName`,
    `sample2`.`teams`.`Abbreviation` AS `Abbreviation`,
    `sample2`.`twitter_post`.`Caption` AS `caption`
FROM
    ((((`sample2`.`profile`
    JOIN `sample2`.`twitter_profile` ON ((`sample2`.`twitter_profile`.`Player_ID` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`twitter_post` ON ((`sample2`.`twitter_post`.`Userid` = `sample2`.`twitter_profile`.`UserID`)))
    JOIN `sample2`.`stat_2016_2017` ON ((`sample2`.`stat_2016_2017`.`Player_id` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2016_2017`.`Team_id`)))

```

PlayerName	Abbreviation	caption
Kent Bazemore	ATL	With a couple games left in the regular season, I wanted to show love to the squad by hookin them up with the JBL F_ https://t.co/lzgG...
Tim Hardaway Jr.	ATL	Congratulations to Dirk Nowitzki and Magic Johnson on their magnificent careers, and abrupt retirements.
Justin Hamilton	BKN	RT @PelicansNBA: Check out @J30_RANDLE's best plays from the 2018-2019 season! https://t.co/Mq6Zs6VK17
Sean Kilpatrick	BKN	@Hawk_§£_§£_§£
Spencer Dinwiddie	BKN	@BobRathbunTV Thanks
Trevor Booker	BKN	RT @grindcitymedia: On this day in 2012, Tony Allen (@aa000G9) set a @memgrizz record with 8 steals vs. the Cavs. TA told Kyrie I... Go Celtics!!! #RiseTogether
Al Horford	BOS	Dammmmm that__ Tough!!! Great Series!!!
Isaiah Thomas	BOS	Jae Crowder BOS @DJJazzyJody _____
Jae Crowder	BOS	RT @KyleKorver: I've been trying to write this for a while. https://t.co/Qkt8aoVtdE
Jonas Jerebko	BOS	RT @cassiuswinston: Crazy _§O_____ https://t.co/uGoHgfPFJJ
Kelly Olynyk	BOS	Marcus Smart BOS RT @spurs: The Professional in rhythm ____ @FOXSportsSW @NBATV https://t.co/FXgMqqHCaZ
Marcus Smart	BOS	Kemba Walker CHA Thanks for the memories @DwyaneWade ____ #OneLastDance https://t.co/nu0Gxklo4S
Kemba Walker	CHA	Marco Belinelli CHA ____ Hoy termina el Año I D___. Por ahora todo impecable! Disfrutando mucho de ser solamente un espectador mv/s de este_ https://...
Marco Belinelli	CHA	Nicolas Batum CHA RT @Nanterre92: __ @iamnjohn13 pour le GROS DUNK ____ Rendez-vous ce soir __ 20h pour le match face _ Cholet au Palais d... Jimmy Butler CHI Such a great message for everyone today! I__ so grateful for my savior. Happy Easter Sunday! #HellsRisen https://t.co/bZS6zjZIKf
Nicolas Batum	CHA	Joffrey Lauvergne CHI What a game @trailblazers and what a performance @Dame_Lillard! Thats a baaaaaad man!!
Joffrey Lauvergne	CHI	Nikola Mirotic CHI I wanted to see my LA homies on OKC do work this yr but they__l back next yr they just need some shooters _____
Nikola Mirotic	CHI	Robin Lopez CHI RT @Nike: Never stop chasing your crazy dream. #justdoit @TigerWoods https://t.co/q9OV6oGLDN
Robin Lopez	CHI	

4. What posts are like mine?

Find specific word in caption of posts. (ex. "playoff")

```

CREATE
    ALGORITHM = UNDEFINED
    DEFINER = `root`@`localhost`
    SQL SECURITY DEFINER
VIEW `sample2`.`q4` AS
SELECT
    `sample2`.`profile`.`Name` AS `PlayerName`,
    `sample2`.`twitter_post`.`Caption` AS `caption`
FROM
    ((((`sample2`.`profile`
    JOIN `sample2`.`twitter_profile` ON ((`sample2`.`twitter_profile`.`Player_ID` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`twitter_post` ON ((`sample2`.`twitter_post`.`Userid` = `sample2`.`twitter_profile`.`UserID`)))
    JOIN `sample2`.`stat_2016_2017` ON ((`sample2`.`stat_2016_2017`.`Player_id` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2016_2017`.`Team_id`)))
WHERE
    (`sample2`.`twitter_post`.`Caption` LIKE '%playoff%')

```

PlayerName	caption
Andre Iguodala	Glad @united got the kids form @bgcsf & @hiddengeniuspro out to watch @warriors playoff game https://t.co/JcPUFiv5NE
Courtney Lee	We got the GOLD out @TheFieldhouse for our fans tonight #NBAPlayoffs #GoldDontQuit #CJ6 https://t.co/YtPd2CWnUE
Danny Green	Ready for tonight? ___ #GoClippers #NBAPlayoffs https://t.co/nK3Jgn23Q
Will Barton	That was one of the best games I___e seen on tv. Props to both teams! #HuluHasLiveSports #HuluSellout #NBAPlayoffs #Ad @Hulu
Zaza Pachulia	Omg is that Jodie Meeks getting playoff burn in 2019

5. Who should I be following?

Players who is in your team.

```

CREATE
    ALGORITHM = UNDEFINED
    DEFINER = `root`@`localhost`
    SQL SECURITY DEFINER
VIEW `sample2`.`q3&q5` AS
SELECT
    `sample2`.`profile`.`Name` AS `PlayerName`,
    `sample2`.`teams`.`Abbreviation` AS `Abbreviation`,
    `sample2`.`twitter_post`.`Caption` AS `caption`
FROM
    ((((`sample2`.`profile`
    JOIN `sample2`.`twitter_profile` ON ((`sample2`.`twitter_profile`.`Player_ID` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`twitter_post` ON ((`sample2`.`twitter_post`.`Userid` = `sample2`.`twitter_profile`.`UserID`)))
    JOIN `sample2`.`stat_2016_2017` ON ((`sample2`.`stat_2016_2017`.`Player_id` = `sample2`.`profile`.`Player_id`)))
    JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2016_2017`.`Team_id`)))

```

PlayerName	Abbreviation	caption
Kent Bazemore	ATL	With a couple games left in the regular season, I wanted to show love to the squad by hookin them up with the JBL F__ https://t.co/lzgG..
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Justin Hamilton	BKN	RT @PelicansNBA: Check out @J30_RANDLE's best plays from the 2018-2019 season! https://t.co/Mq6Zs6VK17
Sean Kilpatrick	BKN	@Hawk_§£_§£_§£
Spencer Dinwiddie	BKN	@BobRathbunTV Thanks
Trevor Booker	BKN	RT @grindcitymedia: On this day in 2012, Tony Allen (@aa000G9) set a @memgrizz record with 8 steals vs. the Cavs. TA told Kyrie I..
Al Horford	BOS	Go Celtics!!! #RiseTogether
Isaiah Thomas	BOS	Dammmmm that___ Tough!!! Great Series!!!
Jae Crowder	BOS	@DJJazzyJody ___
Jonas Jerebko	BOS	RT @KyleKorver: I've been trying to write this for a while. https://t.co/Qkt8aoVtdE
Kelly Olynyk	BOS	RT @cassiuswinston: Crazy _§Ó_____ https://t.co/uGoHgfPFJJ
Marcus Smart	BOS	RT @spurs: The Professional in rhythm ___ ___ @FOXSportsSW @NBATV https://t.co/FXgMqqHCaZ
Kemba Walker	CHA	Thanks for the memories @DwyaneWade ___ #OneLastDance https://t.co/hu0Gxklo4S
Marco Belinelli	CHA	___ Hoy termina el Año I D___. Por ahora todo impecable! Disfrutando mucho de ser solamente un espectador mv/s de este_ https://..
Nicolas Batum	CHA	RT @Nanterre92: ___ @iammjohn13 pour le GROS DUNK ____ Rendez-vous ce soir ___ 20h pour le match face ___ Cholet au Palais d..
Jimmy Butler	CHI	Such a great message for everyone today! I___ so grateful for my savior. Happy Easter Sunday! #HeIsRisen https://t.co/bZS6zjZIKf
Joffrey Lauvergne	CHI	What a game @trailblazers and what a performance @Dame_Lillard! Thats a baaaaaad man!!
Nikola Mirotic	CHI	I wanted to see my LA homies on OKC do work this yr but they___I back next yr they just need some shooters _____
Robin Lopez	CHI	RT @Nike: Never stop chasing your crazy dream. #justdoit @TigerWoods https://t.co/q9OV6oGLDN

6. What topics are trending in my domain?

The topic (Caption) that most people following (Likes + Comments).

```

CREATE
    ALGORITHM = UNDEFINED
    DEFINER = `root`@`localhost`
    SQL SECURITY DEFINER
VIEW `sample2`.`q6` AS
    SELECT DISTINCT
        `sample2`.`profile`.`Name` AS `PlayerName`,
        `sample2`.`twitter_post`.`postid` AS `TW_post_id`,
        `sample2`.`twitter_post`.`Caption` AS `Caption`,
        (`sample2`.`twitter_post`.`Likes` + `sample2`.`twitter_profile`.`Followers`) AS `TW_counts`
    FROM
        ((`sample2`.`profile`
        JOIN `sample2`.`twitter_profile` ON ((`sample2`.`twitter_profile`.`Player_ID` = `sample2`.`profile`.`Player_id`))
        JOIN `sample2`.`twitter_post` ON ((`sample2`.`twitter_post`.`Userid` = `sample2`.`twitter_profile`.`UserID`)))
    ORDER BY `TW_counts` DESC

```

PlayerName	TW_post_id	Caption	TW_counts
LeBron James	169	4/20 plus Easter yeezy service...this weekend was Litty #420weekend #Coachella https://t.co/q...	42529550
Kevin Durant	153	Meet Jett Serpe Bazemore. You will do great things son. And to his beautiful mother, @serpeba...	17503865
Kobe Bryant	159	@abryan__ @dc0omer11 _____	14204289
Stephen Curry	243	@Krisplashed @BryanFonsecaNY @NetsDaily Time to increase the gravity bro... _Σ_____ ΟΠ	13282939
Carmelo Anthony	37	Come And Join Me In My Hometown Of Juneau, Alaska As I Hold My Annual Basketball Camp...	9137802
Chris Paul	44	Our World __ can__ believe it__ time for #Spring #Easter portraits already! Time is flying. #Bosh...	7759457
Pau Gasol	206	@ASaigal10 @NBA No cell phones on bench. Results in fine and/or suspension.	7422822
James Harden	113	RT @tobias31: _____ https://t.co/4XnX4N9WQy	6237339
Manu Ginobili	175	Con esta fotaza hago mi Twitter come back. https://t.co/WbuzCkA8PB	4895267
Blake Griffin	26	Well how do you guard that.... good night I guess!!	4460687
Paul Pierce	208	@laiabarnes Enhorabona Laia, ets la guanyadora! Espero que el llibre sigui d'ajut al teu exentre...	4245461
Dirk Nowitzki	73	RT @CanesHoops: Welcome to the U, Harlond Beverly! https://t.co/0ZjHFY6C60 https://t.co/2F...	3438562
Kevin Love	155	RT @boardroom: __everybody knows that PJ Tucker is the king of sneakers_ - @KDTrey5 https://...	3188250
Ricky Rubio	219	@loriburkhart @channingfrye ShhhhH_S'	2968512
Chris Bosh	43	RT @avpbeach: Sophomore season coming soon. __ @CBudinger https://t.co/q30uFwgfTR	2794349
Derrick Rose	69	https://t.co/TRdaCUbGwi	2635103
Jeremy Lin	126	RT @ACBCOM: .@RayMac3, un jugv�n anda suelto en Lugo. #LigaEndesa https://t.co/jN8VxS...	2525162
Tony Parker	259	RT @VTBUL: -°-μ-≥-≈ ¥ Ω_-≤-Π-≥-μ_-¬'-≈-f-≈-¬'-≈-Ω-Π_-≈-μ-Ω-ø-≈-°-...	2166784
Paul George	207	@tom_orsborn WOW!!!	2082423

7. What keywords/ hashtags should I add to my post?

Most popular hashtags.

```

CREATE
    ALGORITHM = UNDEFINED
    DEFINER = `root`@`localhost`
    SQL SECURITY DEFINER
VIEW `sample2`.`q7` AS
    SELECT
        `sample2`.`twitter_most`.`mostPopHashtag2` AS `mostpopulartags`,
        COUNT(`sample2`.`twitter_most`.`mostPopHashtag2`) AS `Count`
    FROM
        ((((`sample2`.`profile`
        JOIN `sample2`.`twitter_profile` ON ((`sample2`.`twitter_profile`.`Player_ID` = `sample2`.`profile`.`Player_id`)))
        JOIN `sample2`.`twitter_post` ON ((`sample2`.`twitter_post`.`Userid` = `sample2`.`twitter_profile`.`UserID`)))
        JOIN `sample2`.`twitter_most` ON ((`sample2`.`twitter_most`.`userid` = `sample2`.`twitter_profile`.`UserID`)))
        JOIN `sample2`.`stat_2016_2017` ON ((`sample2`.`stat_2016_2017`.`Player_id` = `sample2`.`profile`.`Player_id`)))
        JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2016_2017`.`Team_id`)))
    GROUP BY `sample2`.`twitter_most`.`mostPopHashtag2`
    ORDER BY `Count` DESC

```

mostpopulartags	Count
dubnation	4
GoSpursGo	4
NBAAllStar	3
justdoit	3
MalcolmX	2
ripcity	2
NBAAllStar2019	2
Lembo	2
LeBronWatch	2
yallaherzliya	2
NBAPlayoffs	2
mvp	2
StateFarmSaturday	2
BaylorFamily	2
PureMagic	2
CUsRise	2
2c57	2
Motivation	2
LaFamilia	1

8. Should I follow some body back?

The one who forwarded (shared) your post.

```

CREATE
ALGORITHM = UNDEFINED
DEFINER = `root`@`localhost`
SQL SECURITY DEFINER
VIEW `sample2`.`q9` AS
SELECT
`a`.`Name` AS `Name`,
`sample2`.`twitter_post`.`Caption` AS `Caption`
FROM
(((`sample2`.`profile` `a`
JOIN `sample2`.`twitter_profile` ON ((`sample2`.`twitter_profile`.`Player_ID` = `a`.`Player_id`)))
JOIN `sample2`.`twitter_post` ON ((`sample2`.`twitter_post`.`Userid` = `sample2`.`twitter_profile`.`UserID`)))
JOIN (SELECT
`sample2`.`twitter_post`.`Caption` AS `Caption`
FROM
(`sample2`.`profile`
JOIN `sample2`.`twitter_profile` ON ((`sample2`.`twitter_profile`.`Player_ID` = `sample2`.`profile`.`Player_id`)))
JOIN `sample2`.`twitter_post` ON ((`sample2`.`twitter_post`.`Userid` = `sample2`.`twitter_profile`.`UserID`)))
GROUP BY `sample2`.`twitter_post`.`Caption`
HAVING (COUNT(`sample2`.`twitter_post`.`Caption`) > 1)) `b` ON ((`sample2`.`twitter_post`.`Caption` = `b`.`Caption`)))

```

Name	Caption
Adreian Payne	RT @KyleKorver: I've been trying to write this for a while. https://t.co/Qkt8aoVtdE
Jonas Jerebko	RT @KyleKorver: I've been trying to write this for a while. https://t.co/Qkt8aoVtdE
Anthony Morrow	RT @_LLCoolAye: Out of all the niggas you wanna try to rob, you wanna try Bun B. You clearly don__ care about your life because this man di...
Aron Baynes	RT @_LLCoolAye: Out of all the niggas you wanna try to rob, you wanna try Bun B. You clearly don__ care about your life because this man di...
Austin Daye	RT @_LLCoolAye: Out of all the niggas you wanna try to rob, you wanna try Bun B. You clearly don__ care about your life because this man di...
Kemba Walker	Thanks for the memories @DwyaneWade __ #OneLastDance https://t.co/nu0Gxklo4S
Kendrick Perkins	Thanks for the memories @DwyaneWade __ #OneLastDance https://t.co/nu0Gxklo4S
Kenneth Faried	With a couple games left in the regular season, I wanted to show love to the squad by hookin them up with the JBL F_ https://t.co/lzgGVnIewZ
Kent Bazemore	With a couple games left in the regular season, I wanted to show love to the squad by hookin them up with the JBL F_ https://t.co/lzgGVnIewZ

Use-cases

User Case 1

Top 10 all-time scoring leaders of 2014-2015 regular season

```
VIEW `sample2`.`user_case_1` AS
  SELECT
    `sample2`.`profile`.`Name` AS `Name`,
    `sample2`.`teams`.`Abbreviation` AS `Team`,
    `sample2`.`stat_2014_2015`.`PTS` AS `PTS`
  FROM
    (`sample2`.`stat_2014_2015`
    JOIN `sample2`.`profile` ON ((`sample2`.`profile`.`Player_id` = `sample2`.`stat_2014_2015`.`Player_id`)))
    JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2014_2015`.`Team_id`)))
  ORDER BY `sample2`.`stat_2014_2015`.`PTS` DESC
  LIMIT 10
```

```
SELECT * FROM sample2.user_case_1;
```

Name	Team	PTS
James Harden	HOU	27.4
LeBron James	CLE	25.3
Anthony Davis	NOP	24.4
DeMarcus Cousins	SAC	24.1
Stephen Curry	GSW	23.8
LaMarcus Aldridge	POR	23.4
Blake Griffin	LAC	21.9
Klay Thompson	GSW	21.7
Kyrie Irving	CLE	21.7
Rudy Gay	SAC	21.1

User Case 2

Teams have 2 or more players that Rebounds Per Game (RPG) is higher than 7.0

```
VIEW `sample2`.`user_case_2` AS
  SELECT
    `sample2`.`teams`.`Abbreviation` AS `Team`,
    COUNT(`sample2`.`stat_2014_2015`.`RPG`) AS `COUNT`
  FROM
    (`sample2`.`stat_2014_2015`
    JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2014_2015`.`Team_id`)))
  WHERE
    (`sample2`.`stat_2014_2015`.`RPG` > 7.0)
  GROUP BY `Team`
  HAVING (`COUNT` >= 2)
  ORDER BY `COUNT` DESC

SELECT * FROM sample2.user_case_2;
```

Team	COUNT
OKC	3
CHI	2
MEM	2
NOP	2
UTA	2
DET	2
LAC	2
SAS	2
LAL	2
GSW	2
ATL	2
CLE	2

User Case 3

Top 15 players who have most followers

```

VIEW `sample2`.`user_case_3` AS
SELECT
    `sample2`.`profile`.`Name` AS `Name`,
    `sample2`.`ig_profile`.`Username` AS `Username`,
    `sample2`.`ig_profile`.`Followers` AS `Followers`
FROM
    (((`sample2`.`stat_2014_2015`
    JOIN `sample2`.`profile` ON (`sample2`.`profile`.`Player_id` = `sample2`.`stat_2014_2015`.`Player_id`))
    JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2014_2015`.`Team_id`)))
    JOIN `sample2`.`ig_profile` ON ((`sample2`.`ig_profile`.`Player_id` = `sample2`.`stat_2014_2015`.`Player_id`)))
ORDER BY `sample2`.`ig_profile`.`Followers` DESC
LIMIT 15

SELECT * FROM sample2.user_case_3;

```

Name	Username	Followers
LeBron James	kingjames	47965402
Stephen Curry	stephencurry30	24553855
Kyrie Irving	kyrieirving	12570804
James Harden	jharden13	9444368
Chris Paul	cp3	8792796
Klay Thompson	klaythompson	6085125
Damian Lillard	damianlillard	5276456
Giannis Antetokounmpo	giannis_an34	4392395
JR Smith	teamswish	4264300
Jimmy Butler	jimmybutler	3990676
Isaiah Thomas	isaiyahthomas	3651391
Blake Griffin	blakegriffin23	3614321
Anthony Davis	antdavis23	3403277
Draymond Green	money23green	3145187
DeMarcus Cousins	boogiecousins	2945254

User Case 4

How many players in their team are using Instagram

```
VIEW `sample2`.`user_case_4` AS
SELECT
    `sample2`.`teams`.`Abbreviation` AS `Team`,
    COUNT(`sample2`.`ig_profile`.`Userid`) AS `COUNT`
FROM
    ((`sample2`.`stat_2014_2015`
    JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2014_2015`.`Team_id`)))
    JOIN `sample2`.`ig_profile` ON (`sample2`.`ig_profile`.`Player_id` = `sample2`.`stat_2014_2015`.`Player_id`))
GROUP BY `Team`
ORDER BY `COUNT` DESC

SELECT * FROM sample2.user_case_4;
```

Team	COUNT
DAL	9
BOS	9
GSW	8
ATL	8
OKC	8
MEM	8
MIL	8
TOR	8
SAS	8
LAC	8
WAS	7
CLE	7
UTA	7
ORL	6
SAC	6
NOP	6
CHI	6
IND	6
POR	6
LAL	6
DEN	5
PHX	5
MIA	5
DET	5
CHA	5
HOU	4
NYK	4
BKN	4
MIN	3
PHI	3

User Case 5

Players that Body Mass Index (BMI) are in normal weight 18.5 to 24.9

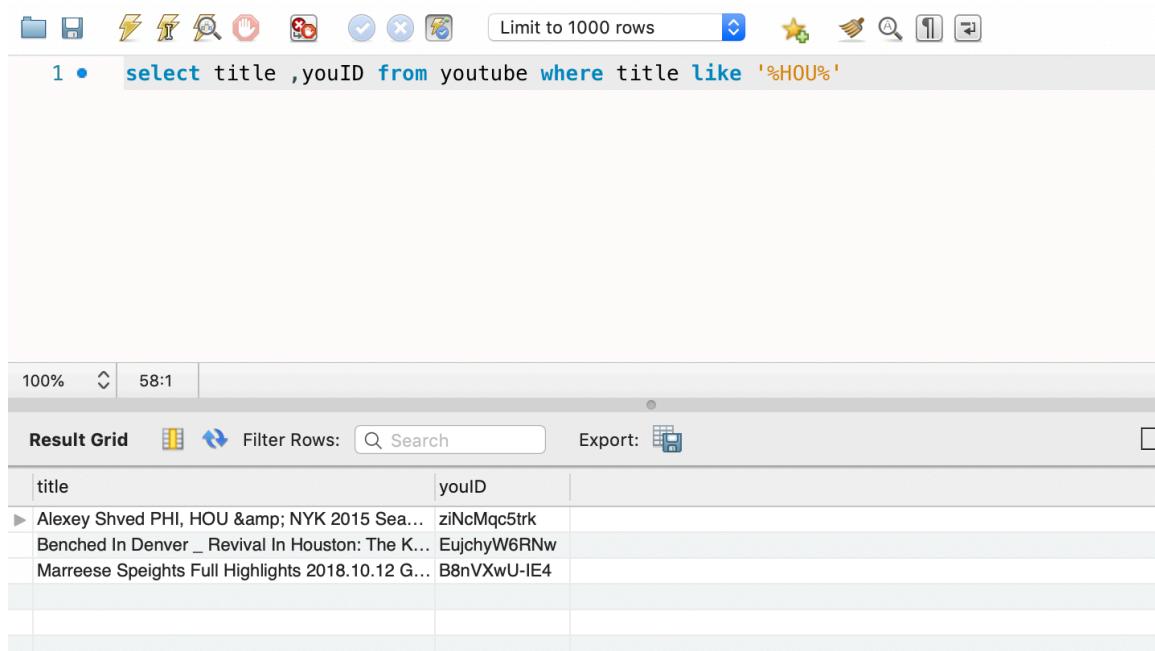
```
VIEW `sample2`.`user_case_5` AS
SELECT
    `sample2`.`profile`.`Name` AS `Name`,
    `sample2`.`profile`.`Height` AS `Height`,
    `sample2`.`profile`.`Weight` AS `Weight`,
    ROUND((((`sample2`.`profile`.`Weight` / `sample2`.`profile`.`Height`) / `sample2`.`profile`.`Height`) * 100) * 100)
    2) AS `BMI`
FROM
    (`sample2`.`stat_2014_2015`
JOIN `sample2`.`profile` ON ((`sample2`.`profile`.`Player_id` = `sample2`.`stat_2014_2015`.`Player_id`)))
HAVING ((`BMI` >= 18.5) AND (`BMI` <= 24.9))
ORDER BY `BMI`
```

```
SELECT * FROM sample2.user_case_5;
```

Name	Height	Weight	BMI
Corey Brewer	202.5	83.7	20.41
Will Barton	195	78.75	20.71
Justin Holiday	195	83.25	21.89
Steve Blake	187.5	77.4	22.02
Shaun Livingston	197.5	86.4	22.15
Otto Porter Jr.	200	89.1	22.28
Aaron Brooks	180	72.45	22.36
Dante Exum	195	85.5	22.49
Michael Carter-Williams	195	85.5	22.49
Nicolas Batum	200	90	22.50
Donatas Motiejunas	210	99.9	22.65
Zach LaVine	192.5	85.05	22.95
Norris Cole	185	78.75	23.01
Elfrid Payton	190	83.25	23.06
Tony Snell	197.5	90	23.07
Giannis Antetokounmpo	207.5	99.9	23.20
Kemba Walker	182.5	77.4	23.24
Dennis Schroder	182.5	77.4	23.24
Tayshaun Prince	202.5	95.4	23.26
Brian Roberts	182.5	77.85	23.37
Jordan Clarkson	192.5	87.3	23.56
Nikola Mirotic	205	99	23.56
Robert Covington	202.5	96.75	23.59
Harrison Barnes	200	94.5	23.62
Jerami Grant	200	94.5	23.62
Mike Conley	182.5	78.75	23.64
Lou Williams	182.5	78.75	23.64
Evan Fournier	197.5	92.25	23.65
Gerald Green	197.5	92.25	23.65
Avery Bradley	185	81	23.67
Monte Ellis	187.5	83.25	23.68
Ben McLemore	192.5	87.75	23.68
JJ Redick	190	85.5	23.68
Kirk Hinrich	190	85.5	23.68

User Case 6

Is there any videos mention Houston?



The screenshot shows the MySQL Workbench interface. At the top, there is a toolbar with various icons for database management. Below the toolbar, a query editor window displays the following SQL code:

```
1 •  select title ,youID from youtube where title like '%HOU%'
```

Below the query editor is a results pane titled "Result Grid". It contains a table with two columns: "title" and "youID". The table displays three rows of data:

title	youID
Alexey Shved PHI, HOU & NYK 2015 Sea...	ziNcMqc5trk
Benching In Denver _ Revival In Houston: The K...	EujchyW6RNw
Marreese Speights Full Highlights 2018.10.12 G...	B8nVXwU-IE4

User Case 7

If you want to see highlights of players, which channel should you go?

```
1 •  select channelId ,channelTitle from youtube
2      where title like '%highlights%' or 'description' like '%highlights%'
```

channelId	channelTitle
UCEjOSbbaOfgnfRODEEMYCw	FreeDawkins
UCvUjKLQXdhOrkWQobE1wnQ	Badmuun Productions
UCIgm2X3RWGeei2UrFjNjuxw	1677091 Productions
UCEjOSbbaOfgnfRODEEMYCw	FreeDawkins
UCEjOSbbaOfgnfRODEEMYCw	FreeDawkins
UCiq84oYE2CvwXGM15QH8Jtw	RocketsHighlights
UCIgm2X3RWGeei2UrFjNjuxw	1677091 Productions
UCB6Vsmb825qo3Gq45O8ML4w	Hoops Highlights
UCsvPgANw09HyK7jsXUC3ku	Tomasz Kordylewski
UCEjOSbbaOfgnfRODEEMYCw	FreeDawkins
UCIgm2X3RWGeei2UrFjNjuxw	1677091 Productions
UCLkPt9skBpFSgkF0SDwvK0w	Eurohoops TV
UCIgm2X3RWGeei2UrFjNjuxw	1677091 Productions
UCI9phe79kKoR86yMQ35G7w	MullinsFor MVP
UC6ihApg-24pUH-74FP5P9TA	NBA Zone Highlights
UCd_EkHbEutirFL_XSr95kA	Real GD's Latest High...
UCvv2FYIPS41GsYmsr7FsUHA	MainTime
UCwWQ8CBNWUWX1EECs1FmlFg	AlbertPujolsIII
UCIgm2X3RWGeei2UrFjNjuxw	1677091 Productions
UCEjOSbbaOfgnfRODEEMYCw	FreeDawkins
UCEjOSbbaOfgnfRODEEMYCw	FreeDawkins
UCvv2FYIPS41GsYmsr7FsUHA	MainTime
UCpGimyrbwRtrcj-CliRDXbA	nbagleague

There are 153 channels that you can go to see the videos related to game highlights.

```
1 •  select count(channelTitle) from youtube
2      where title like '%highlights%' or 'description' like '%highlights%'
```

The screenshot shows a database query results grid. At the top, there are navigation controls: a zoom icon (100%), a dropdown menu, and a page number (8:1). Below these are buttons for 'Result Grid' (selected), 'Filter Rows', 'Search' (with placeholder 'Search'), and 'Export' (with a file icon). The main area displays a single row of data:

count(channelTitle)	153
---------------------	-----

User Case 8

Top 5 latest videos that related to playoffs

The screenshot shows the MySQL Workbench interface with a query editor and a result grid. The query is:

```
1 • select title,youID from youtube  
2 where title like '%playoff%' order by pub_date asc limit 5
```

The result grid displays the following data:

title	youID
▶ John Salmons Full Highlights 2009 Playoffs R1G6 vs Celtics - 35 Pts	EDitZli1wkE
Leandro Barbosa Full 2016 NBA Playoffs Highlights	H-yLo4dkm80
Gordon Hayward Highlight 10p 7r 4a 2s Celtics 1 - 0 Pacers Playoffs SNTV	UrzxD0aS2Hs
Andre Drummond SHOVES Giannis Antetokounmpo, Gets Ejected from Game 2019 NBA Playoffs	yhl5ZUvNvMc
Chris Paul exits press conference after James Harden is asked every question 2019 NBA Playoffs	eid3wrkPKp4

User Case 9

What youtuber say about Al Horford?

The screenshot shows the MySQL Workbench interface with a query editor and a result grid. The query is:

```
1 • select title,description from youtube  
2 where title like '%Al horford%' or 'description'like '%Al horford%'
```

The result grid displays the following data:

title	description
▶ Al Horford Full Highlights 2019.04.01 Celtics vs Heat - 19 Pts, 10 Rebs, 10 Asts! FreeDawkins	April 1, 2019 Al Horford Full Highlights 2019.04.01 Celtics vs Heat - 19 Pts, 10 Rebs,...

User Case 10

List the videos from official NBA channel

```
1 •  select title,description from youtube
2   where channelTitle = 'NBA' Order by pub_date asc
```

title	description
Carter Martin's Shot Leads the Top 10	NBA's Top 10 plays for November 2nd.
Mike Dunleavy Drops 35 to Give the Bulls a Game 3 Win	Mike Dunleavy had 35 points, including 8 three-pointers, to help the Bulls to a 100-97...
Amar'e Stoudemire's Top 10 Plays of His Career	14 Years of jaw dropping plays and monster dunks. It's the Top 10 Plays of Amar'e St...
Kevin Garnett's Top 50 Plays of His Career	Check out the Top 50 Plays from Kevin Garnett's 21 year career! About the NBA: The...
Kevin Martin Top 10 Plays of His Career	Check out the Top 10 Plays of Kevin Martin's Career! About the NBA: The NBA is the...
Andre Iguodala's BEST Play Each Season In The NBA! (04-16 Season)	Here are Andre Iguodala's best plays each season since he has been in the NBA.
Best Of Joe Ingles So Far This Season	Check out the best highlights from Joe Ingles so far during the 2018-2019 NBA seaso...
Best Of Nikola Vucevic 2019 All-Star Reserve 2018-19 NBA Season	Nikola Vucevic, from the Orlando Magic has been named a reserve for the 2019 NBA...
BULLS vs PISTONS Langston Galloway's 3-Point Barrage Propels Pistons March 10, 2019	The Pistons sank 19 three-pointers as a team (19-35, 54.3%) en route to a 131-108 vi...
Nick Collison Gets His #4 Jersey Retired In Oklahoma City March 20, 2019	Nick Collison aka Mr. Thunder became the first Thunder player to have his jersey retir...
Chris Bosh Gets His #1 Jersey Retired In Miami March 26, 2019	Chris Bosh, the 2x NBA champion and 11x NBA-All-Star gets his jersey retired by the...
FULL CEREMONY Manu Ginobili Gets His #20 Jersey Retired In San Antonio March 28, 2019	Manu Ginobili, the 4x NBA champion and 2x NBA-All-Star and 2008 sixth man of the...
LeBron James' Best Plays From the 2018-19 NBA Regular Season	Check out the best plays from LeBron James' during the 2018-19 NBA regular season...
Derrick Rose's Best Plays From the 2018-19 NBA Regular Season	Check out the best plays from Derrick Rose during the 2018-19 NBA regular season....
Aaron Gordon's Best Plays From the 2018-19 NBA Regular Season	Check out the best plays from Aaron Gordon during the 2018-19 NBA regular season....
Dirk Nowitzki's Best Plays From His Final Season	Check out the best plays from Dirk Nowitzki during the 2018-19 NBA regular season...

User Case 11

Select the comments have high score and the target player.

```
In [16]: 1 results = cl.execute("SELECT name, body FROM reddit_comment WHERE score > 5000;")
2 q=results.fetchall()
3 q
```

```
Out[16]: [('Andre Iguodala',
 "1. That's nice of Andre\n\n2. It's extremely fucked that a grandmother needs to pay $7500 to adopt her own fuckin grandkids"),
 ('Hollis Thompson',
 'i'm very conflicted. not only is this shitting on the celtics, it's praising the lakers. i really don't know how to feel.'),
 ('James Jones',
 'The beef with Dudley of all players is so hilarious to me. This series man'),
 ('Jordan Adams',
 'It is hypocritical but its also very easy to see why the NBA wants him to play. Nobody buys a ticket or tunes into a game to watch Melo or JR, they do for AD.'),
 ('Langston Galloway', 'Na-cho night dubs fans'),
 ('Robbie Hummel', '21 assists, two turnovers :o')]
```

User Case 12

Select comment which may contain a bad mood.

```
In [17]: 1 results2 = cl.execute("SELECT body FROM reddit_comment where body like '%cry%'")  
2 q2=results2.fetchall()  
3 q2
```

```
Out[17]: [{"And now I'm crying at work😭\n\nWay to show out for the fallen Magic men that've shown their love and support."}])
```

User Case 13

Select target player name for the title which may contain a good mood.

```
In [19]: 1 results4 = c2.execute("SELECT name FROM reddit_latest where title like '%great%'")  
2 q4=results4.fetchall()  
3 q4
```

User Case 14

Select target player name for the title which may contain a good mood.

```
In [19]: 1 results4 = c2.execute("SELECT name FROM reddit_latest where title like '%great%' ;")
2 q4=results4.fetchall()
3 q4
```

```
Out[19]: [('Kawhi Leonard',),
('Nazr Mohammed',),
('Nick Johnson',),
('Nikola Pekovic',),
('Shawn Marion',),
('Will Barton',)]
```

User Case 15

Select target palyer for surprising mood title, sort by player id in descending order.

```
In [20]: 1 results5 = c2.execute("SELECT name FROM reddit_latest where title like '%!%' ORDER BY PlayerID DESC ;")
2 q5=results5.fetchall()
3 q5
```

```
Out[20]: [('Tarik Black',),
('Shayne Whittington',),
('Sean Kilpatrick',),
('Rudy Gay',),
('Ronny Turiaf',),
('Quincy Miller',),
('Nick Johnson',),
('Nene',),
('Nazr Mohammed',),
('Nate Robinson',),
('Meyers Leonard',),
('Maurice Harkless',),
('Marcus Thornton',),
('Marco Belinelli',),
('Larry Sanders',),
('Kent Bazemore',),
('Johnny O'Bryant III',),
('Jeremy Lamb',),
('Jeremy Evans',),
('James Young',),
('Jamal Crawford',),
('Elijah Millsap',),
('Ekpe Udoh',),
('Derrick Favors',),
('Danilo Gallinari',),
('Charlie Villanueva',),
('Bruno Caboclo',),
('Archie Goodwin',),
('Anthony Bennett',),
('Andrew Nicholson',),
("Amar'e Stoudemire",)]
```

User Case 16

Select inactive player in twitter, player information show as userid.

```
In [17]: 1 results1 = c1.execute("SELECT userid FROM twitter_most where mostPopPost='[]';")
          2 q1=results1.fetchall()
          3 q1
```

```
[(466852270.0,), (23083404.0,),  
(1067020626.0,), (114836738.0,),  
(135323628.0,), (59297233.0,),  
(1538825629.0,), (163559269.0,),  
(416120361.0,), (64949907.0,),  
(76809678.0,), (150846769.0,),  
(130939593.0,), (2790308794.0,),  
(7.57288e+17,), (135773677.0,),  
(273532957.0,), (48203492.0,),  
(40779444.0,), (37367041.0,),  
(269552973.0,), (609548724.0,),  
(37534613.0,), (165953518.0,),  
(2232325386.0,), (231335961.0,),  
(205771054.0,), (64643728.0,),  
(61604894.0,), (119135103.0,),  
(202893625.0,), (47218790.0,),  
(33995409.0,), (388014562.0,),  
(302111485.0,), (291497363.0,),  
(131009726.0,), (51625402.0,)]
```

User Case 17

Select most popular hashtag related to “NBA”.

```
In [18]: 1 results2 = c1.execute("SELECT mostPopHashtag1 FROM twitter_most where mostPopHashtag1 like '%NBA%';")
          2 q2=results2.fetchall()
          3 q2
```

```
Out[18]: [('NBAPlayoffs',),
          ('NBAPlayoffs',),
          ('NBATwitterLive',),
          ('NBAPlayoffs',),
          ('NBACommunityAssist',),
          ('NBASe',),
          ('NBASe',),
          ('NBASe',),
          ('NBASe',),
          ('NBASe',),
          ('NBASe',),
          ('NBATwitterLive',),
          ('nba',),
          ('NBAPlayoffs',),
          ('NBAAllStar',),
          ('NBAAllStar',),
          ('NBAAllStar',),
          ('NBAAllStar',)]
```

User Case 18

Select target user (show as userid) for who's most recent post is uploaded in March.

```
In [19]: 1 results3 = c2.execute("SELECT Userid FROM twitter_post where Time like '%/3/%';")
           2 q3=results3.fetchall()
           3 q3
```

```
Out[19]: [(373677327.0,),
           (159113258.0,),
           (142138363.0,),
           (364970961.0,),
           (70926844.0,),
           (205771054.0,),
           (116485600.0,),
           (58673299.0,),
           (281405595.0,),
           (47635525.0,),
           (162749920.0,),
           (153133853.0,),
           (54780126.0,)]
```

User Case 19

Select post content may talking about game winning. Output is sorting by post time in descending order.

```
In [20]: 1 results4 = c2.execute("SELECT Caption FROM twitter_post where Caption like '%win%' ORDER BY Time DESC ;")
           2 q4=results4.fetchall()
           3 q4
```

```

Out[20]: [('Bro that might be the COLDEST game winner I __e ever seen _____ Dame is an absolute MONSTER!',),
('#great #wintonight #yallaherzliya @winnerleague #from #thereson https://t.co/ZOxscYpxED',),
('Congratulations @BrookeHenderson on winning the LPGA Lotte Championship Back 2 Back Years! _____',),
('Great home win! @CBBreogan we heard you tonight!!!!',),
('@KingKirk53 We didn__ win enough games I guess __',),
('Y__ll think men can just use hotel soap and win? Step up your game with @OldSpice Moisturize with Shea Butter body
 - https://t.co/lMX8OAIma5',),
('RT @cassiuswinston: Crazy __i_____ https://t.co/uGoHgfPFJJ',),
("RT @Santa_Vol: The last time the Vols were in the Sweet 16 Jarnell Stokes helped get them there! If you'd like to
 win this card autographe_")]

```

User Case 20

Select the top five favorite player.

```

In [21]: 1 results5 = c3.execute("SELECT Name FROM twitter_profile ORDER BY Followers DESC LIMIT 5 ;")
2 q5=results5.fetchall()
3 q5

```

```

Out[21]: [('LeBron James',),
('Kevin Durant',),
('Kobe Bryant',),
('Stephen Curry',),
('Carmelo Anthony',)]

```

Views

View 1

Top 10 all-time scoring leaders of 2014-2015 regular season

```

VIEW `sample2`.`user_case_1` AS
  SELECT
    `sample2`.`profile`.`Name` AS `Name`,
    `sample2`.`teams`.`Abbreviation` AS `Team`,
    `sample2`.`stat_2014_2015`.`PTS` AS `PTS`
  FROM
    (`sample2`.`stat_2014_2015`
    JOIN `sample2`.`profile` ON ((`sample2`.`profile`.`Player_id` = `sample2`.`stat_2014_2015`.`Player_id`)))
    JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2014_2015`.`Team_id`)))
  ORDER BY `sample2`.`stat_2014_2015`.`PTS` DESC
  LIMIT 10

  SELECT * FROM sample2.user_case_1;

```

Name	Team	PTS
James Harden	HOU	27.4
LeBron James	CLE	25.3
Anthony Davis	NOP	24.4
DeMarcus Cousins	SAC	24.1
Stephen Curry	GSW	23.8
LaMarcus Aldridge	POR	23.4
Blake Griffin	LAC	21.9
Klay Thompson	GSW	21.7
Kyrie Irving	CLE	21.7
Rudy Gay	SAC	21.1

View 2

Teams have 2 or more players that Rebounds Per Game (RPG) is higher than 7.0

```

VIEW `sample2`.`user_case_2` AS
SELECT
    `sample2`.`teams`.`Abbreviation` AS `Team`,
    COUNT(`sample2`.`stat_2014_2015`.`RPG`) AS `COUNT`
FROM
    (`sample2`.`stat_2014_2015`
    JOIN `sample2`.`teams` ON ((`sample2`.`teams`.`Team_id` = `sample2`.`stat_2014_2015`.`Team_id`)))
WHERE
    (`sample2`.`stat_2014_2015`.`RPG` > 7.0)
GROUP BY `Team`
HAVING (`COUNT` >= 2)
ORDER BY `COUNT` DESC

SELECT * FROM sample2.user_case_2;

```

Team	COUNT
OKC	3
CHI	2
MEM	2
NOP	2
UTA	2
DET	2
LAC	2
SAS	2
LAL	2
GSW	2
ATL	2
CLE	2

View 3

List the videos from official NBA channel

The screenshot shows a database interface with two tabs: "project - Schema" and "Query 2". The "Query 2" tab contains the following SQL code:

```
1 • Create view NBA AS
2   select title,description from youtube
3   where channelTitle = 'NBA' Order by pub_date asc
```

Below the code, another query is partially typed:

```
1 • Select * from nba
```

At the bottom, the "Result Grid" shows the data returned by the first query:

title	description
Cartier Martin's Shot Leads the Top 10	NBA's Top 10 plays for November 2nd.
Mike Dunleavy Drops 35 to Give the Bulls a Ga...	Mike Dunleavy had 35 points, including 8 three-...
Amar'e Stoudemire's Top 10 Plays of...	14 Years of jaw dropping plays and monster dun...
Kevin Garnett's Top 50 Plays of His Career	Check out the Top 50 Plays from Kevin Garnett'...
Kevin Martin Top 10 Plays of His Career	Check out the Top 10 Plays of Kevin Martin's Ca...
Andre Iguodala's BEST Play Each Season...	Here are Andre Iguodala's best plays each seas...
Best of Joe Ingles So Far This Season	Check out the best highlights from Joe Ingles so...
Best Of Nikola Vucevic 2019 All-Star Reserve I...	Nikola Vucevic, from the Orlando Magic has bee...
BULLS vs PISTONS Langston Galloway...	The Pistons sank 19 three-pointers as a team (1...
Nick Collison Gets His #4 Jersey Retired In Okl...	Nick Collison aka Mr. Thunder became the first...
Chris Bosh Gets His #1 Jersey Retired In Miami...	Chris Bosh, the 2x NBA champion and 11x NBA...
FULL CEREMONY Manu Ginobili Gets His #2...	Manu Ginobili, the 4x NBA champion and 2x NB...
LeBron James' Best Plays From the 2018-...	Check out the best plays from LeBron James' d...
Derrick Rose's Best Plays From the 2018-...	Check out the best plays from Derrick Rose duri...
Aaron Gordon's Best Plays From the 2018...	Check out the best plays from Aaron Gordon du...
Dirk Nowitzki's Best Plays From His Final...	Check out the best plays from Dirk Nowitzki duri...

View 4

Is there any videos mention Houston?

The screenshot shows a database interface with two tabs: "project - Schema" and "Query 2". The "Query 2" tab contains the following SQL code:

```
1 Create view hou as
2   select title,youID from youtube where title like '%hou%'
```

The screenshot shows the MySQL Workbench interface. At the top, there are tabs for 'project - Schema' and 'Query 2'. Below the tabs is a toolbar with various icons for database management. A search bar contains the text 'Limit to 1'. The main area displays a query in the editor:

```
1 • select * from hou
```

Below the editor is a status bar showing '100%' and '18:1'. The results grid has columns 'title' and 'youID'. The data is as follows:

title	youID
Alexey Shved PHI, HOU & NYK 2015 Sea...	ziNcMqc5trk
Benched In Denver _ Revival In Houston: The K...	EujchyW6RNw
Marreese Speights Full Highlights 2018.10.12 G...	B8nVXwU-IE4

View 5

Get whole players' information whose followers is bigger than 1000000 even though posts is less than 100.

The screenshot shows the MySQL Workbench interface with a tab for 'Query 35'. The query editor contains the SQL code to create a view:

```

1 • CREATE
2     ALGORITHM = UNDEFINED
3     DEFINER = `root`@`localhost`
4     SQL SECURITY DEFINER
5     VIEW `twitter_profile_view` AS
6     SELECT
7         `twitter_profile`.`Player_ID` AS `Player_ID`,
8         `twitter_profile`.`Screen_name` AS `Screen_name`,
9         `twitter_profile`.`Bio` AS `Bio`,
10        `twitter_profile`.`Posts` AS `Posts`,
11        `twitter_profile`.`Followers` AS `Followers`,
12        `twitter_profile`.`Friends` AS `Friends`
13     FROM
14        `twitter_profile`
15     WHERE
16        ((`twitter_profile`.`Followers` > 1000000)
17        AND (`twitter_profile`.`Posts` < 100))

```

```

1 •  SELECT * FROM FinalProject_6210.twitter_profile;
2 •  SELECT * FROM twitter_profile_view;

```

Result Grid

Player_ID	Screen_name	Bio	Posts	Followers	Friends
43	BernardJame5	#5, #0, Philanthropist, FloridaState Alum, Forme...	12	13625	215
115	drose	POOH - 4/11/19 ??	83	2631702	34
251	JrFarmar	Father, Husband, Cali Born & Raised...	38	27755	0
331	moe_harkless	Queens made me	74	44501	557
361	NoahVonleh		3	28283	347
365	AsikOmer	asikomer33@gmail.com	1	44795	49

View 6

Get whole players' information whose likes is bigger than 3000 and fans gives comments.

```

Name: twitter_post_view

```

```

1 •  CREATE
2      ALGORITHM = UNDEFINED
3      DEFINER = `root`@`localhost`
4      SQL SECURITY DEFINER
5      VIEW `twitter_post_view` AS
6          SELECT
7              `twitter_post`.`postid` AS `postid`,
8              `twitter_post`.`Userid` AS `Userid`,
9              `twitter_post`.`Caption` AS `Caption`,
10             `twitter_post`.`Likes` AS `Likes`,
11             `twitter_post`.`Comments` AS `Comments`
12         FROM
13             `twitter_post`
14         WHERE
15             ((`twitter_post`.`Likes` > 3000)
16             AND (`twitter_post`.`Comments` <> 'No comments'))
17         ORDER BY `twitter_post`.`Likes` DESC

```

The screenshot shows the MySQL Workbench interface with two queries running:

```

1 •  SELECT * FROM FinalProject_6210.twitter_post;
2 •  SELECT * FROM twitter_post_view;

```

The results for Query 2 are displayed in a grid:

postid	Userid	Caption	Likes	Comments
245	73058561	I couldn't be more humbled to be a part of brin...	18306	@RayMac3 @CBBreogan Detroit and Breo Vs...
40	272116860	happens to the best of us	17959	@ChandlerParsons _____...
79	43756302	Damn Darnel Wow!	16207	@Money23Green @SLAMonline Draymond to...
175	24342206	Con esta fotaza hago mi Twitter come back. ht...	13265	@LScola4 Que lindo haber visto en vivo y direct...
198	473227811	I wanted to see my LA hornies on OKC do work...	6491	@LangGalloway10 Real rap.
229	456318344	The teleporting Brodie ____ #whynot @MountainD...	4517	@nicolas88batum _____
221	233810051	... now that's a dagger. What a performance. All...	3657	@MCW1 Thanks for bringing extra heart and hu...

View 7

Get whole players' information whose score is bigger than 5000.

The screenshot shows the MySQL Workbench interface with a new view being created:

```

Name: reddit_comment_view

```

The code for the view is:

```

1 •  CREATE
2      ALGORITHM = UNDEFINED
3      DEFINER = `root`@`localhost`
4      SQL SECURITY DEFINER
5      VIEW `reddit_comment_view` AS
6          SELECT
7              `reddit_comment`.`PlayerID` AS `PlayerID`,
8              `reddit_comment`.`body` AS `body`,
9              `reddit_comment`.`score` AS `score`,
10             `reddit_comment`.`author` AS `author`,
11             `reddit_comment`.`id` AS `id`,
12             `reddit_comment`.`created` AS `created`
13         FROM
14             `reddit_comment`
15         WHERE
16             (`reddit_comment`.`score` > 5000)

```

The screenshot shows the MySQL Workbench interface with two queries running:

```

1 •  SELECT * FROM FinalProject_6210.reddit_comment;
2 •  SELECT * FROM reddit_comment_view;

```

The results for the second query are displayed in a grid:

PlayerID	body	score	author	id	created
21	1. That's nice of Andre 2. It's extremely fucked t...	7202	gustriandos	ecgmb03	1545666534
178	i'm very conflicted. not only is this shitting on the...	12004	ChrisTheMiss	efmetfy	1549149537
197	The beef with Dudley of all players is so hilariou...	5969	ChaoticNyanCat	eldoyp5	1555796960
249	It is hypocritical but its also very easy to see wh...	5432	Altro_Cat	eg8eaub	1549902786
297	Na-cho night dubs fans	5648	keefstrong	el089am	1555403293
398	21 assists, two turnovers :o	5630	PeachesTheApache	ejzveb5	1554258681

View 8

Get whole players' information whose score is higher than 2000 and comms_num is higher than 1000. And get order according to score.

The screenshot shows the creation of a view named `reddit_latest_view`:

```

1 • CREATE
2     ALGORITHM = UNDEFINED
3     DEFINER = `root`@`localhost`
4     SQL SECURITY DEFINER
5     VIEW `reddit_latest_view` AS
6         SELECT
7             `reddit_latest`.`PlayerID` AS `PlayerID`,
8             `reddit_latest`.`title` AS `title`,
9             `reddit_latest`.`score` AS `score`,
0             `reddit_latest`.`author` AS `author`,
1             `reddit_latest`.`author_id` AS `author_id`,
2             `reddit_latest`.`url` AS `url`,
3             `reddit_latest`.`comms_num` AS `comms_num`,
4             `reddit_latest`.`created` AS `created`
5         FROM
6             `reddit_latest`
7         WHERE
8             ((`reddit_latest`.`score` > 20000)
9             AND (`reddit_latest`.`comms_num` > 1000))
0         ORDER BY `reddit_latest`.`score`

```

```

1 •  SELECT * FROM FinalProject_6210.reddit_latest;
2 •  SELECT * FROM reddit_latest_view;

```

Result Grid

PlayerID	title	score	author	author_id	url	comms_num	created
376	Jalen Rose reading off D-Wade's accomplishment...	22935	Shay038	ba64uk	https://streamable.com/f6u3w	1743	15545685
48	Bradley Beal reacts to fan telling him he sucks	23703	Vswerve27	b8zjtb	https://streamable.com/wnn89	1083	15543059
183	Isiah Thomas likes tweet: "Boston dumped Isai...	25118	sans-wil	amjqf	https://www.reddit.com/r/nba/comments/amjqf/i...	1979	15491495
89	[Wojnarowski] New York has agreed with Dallas...	28106	twistedlogicx	alu2ds	https://twitter.com/wojespn/status/10910763737...	5450	15489678
480	[Wojnarowski] New York has agreed with Dallas...	28107	twistedlogicx	alu2ds	https://twitter.com/wojespn/status/10910763737...	5450	15489678
222	Jeremy Lamb throws up the desperation heave...	31021	-Acro-	b53qr3	https://streamable.com/cmrqf5	1589	15534735
121	Dirk Nowitzki crying after being introduced in his...	54872	jabaswim	bbukg5	https://v.redd.it/9148tlyljr21	1417	15549482
273	Jeremy Lins response to Kenyon Martin	83716	QueenVirgo95	9n60t3	https://i.redd.it/a3z7lh9xgr11.png	2693	15392251

Functions

Function 1

Calculate the BMI.

```

CREATE DEFINER=`root`@`localhost` FUNCTION `BMI`(height double, weight double) RETURNS double
DETERMINISTIC
BEGIN
    Declare x double;
    set x = weight/height/height*100*100;
    RETURN x ;
END

Select Name,Height,Weight, BMI(Height,Weight) AS BMI
FROM STAT_2014_2015
INNER JOIN PROFILE ON PROFILE.Player_id=STAT_2014_2015.Player_id
Having BMI>=20 and BMI<=22
ORDER BY BMI ASC;

```

Name	Height	Weight	BMI
Corey Brewer	202.5	83.7	20.411522633744855
Will Barton	195	78.75	20.710059171597635
Justin Holiday	195	83.25	21.893491124260354

Function 2

Categorize the followers into 3 classes.

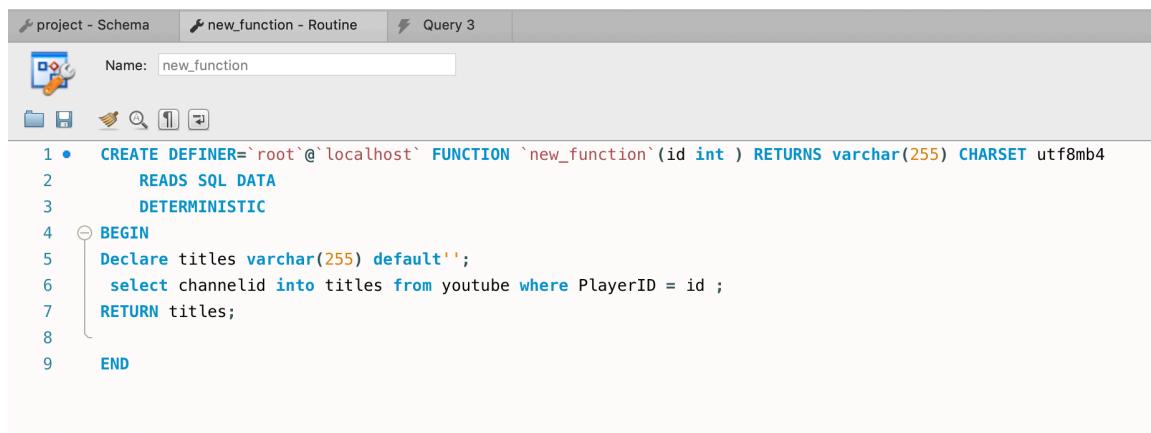
```
CREATE DEFINER=`root`@`localhost` FUNCTION `followers_class`(followers int)
RETURNS varchar(10) CHARSET utf8mb4 COLLATE utf8mb4_unicode_ci
DETERMINISTIC
BEGIN
    declare lv varchar(20);
    IF followers > 1000000 THEN
        SET lv = 'PLATINUM';
    ELSEIF (followers <= 1000000 AND followers >= 500000) THEN
        SET lv = 'GOLD';
    ELSEIF followers < 500000 THEN
        SET lv = 'SILVER';
    END IF;
    RETURN (lv);
END

SELECT Player_id, Fullname, followers_class(Followers)
FROM IG_PROFILE
ORDER BY Player_id;
```

Player_id	Fullname	followers_class(Followers)
2	Al Horford	GOLD
4	Alan Anderson	SILVER
5	Alex Len	SILVER
6	Alexis Ajinça	SILVER
7	Al-Farouq Aminu	SILVER
8		SILVER
9	Andre Drummond	PLATINUM
10	Andre Iguodala	PLATINUM
12	Andre Roberson	SILVER
13	Andrew Bogut	SILVER
14	Anthony Davis	PLATINUM
15	Anthony Morrow	SILVER
16	Aron Baynes	SILVER
17	Arron Afflalo	SILVER
18	Austin Rivers	SILVER
19	Avery Bradley	SILVER
20	Ben McLemore	SILVER
21	Bismack Biyombo	SILVER
22	Blake Griffin	PLATINUM
23	Bojan Bogdanovic	SILVER
24	Borisdiaw	SILVER

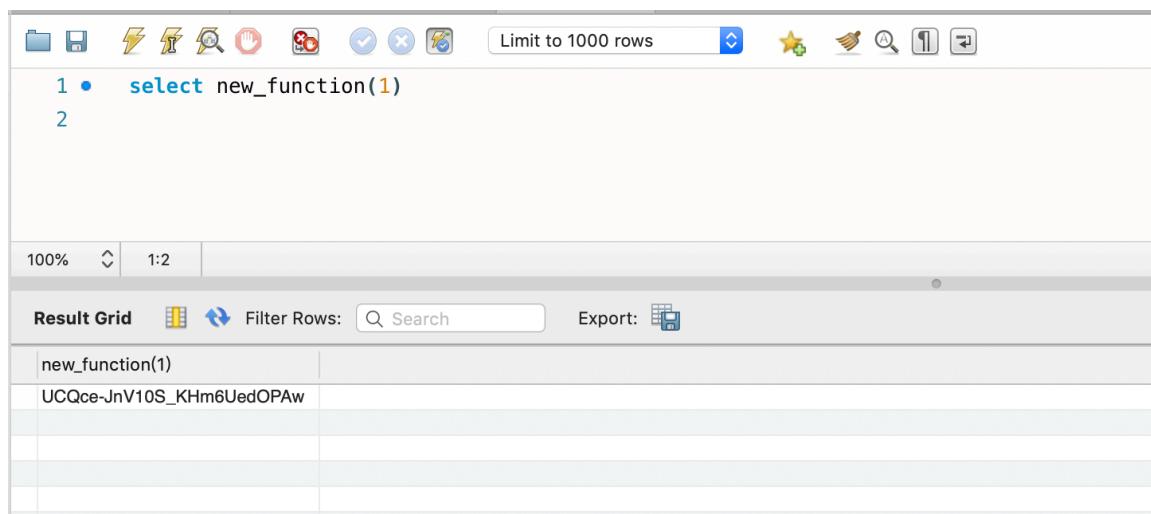
Function 3

Find channeled through player id



The screenshot shows the MySQL Workbench interface. In the top navigation bar, the 'Schema' tab is selected. Below it, the 'new_function - Routine' tab is active. A search bar labeled 'Name:' contains the text 'new_function'. The main area displays the SQL code for creating the function:

```
1 • CREATE DEFINER='root'@'localhost' FUNCTION `new_function`(id int ) RETURNS varchar(255) CHARSET utf8mb4
2     READS SQL DATA
3     DETERMINISTIC
4     BEGIN
5         Declare titles varchar(255) default '';
6         select channelid into titles from youtube where PlayerID = id ;
7         RETURN titles;
8     END
9 
```



The screenshot shows the MySQL Workbench interface with the 'Query 3' tab selected. The query window contains the following SQL command:

```
1 •     select new_function(1)
2 
```

The results grid below shows the output of the function call:

new_function(1)
UCQce-JnV10S_KHm6UedOPAw

Function 4

Find title through player id

The screenshot shows the MySQL Workbench interface. At the top, there's a toolbar with various icons. Below it is a query editor window containing two snippets of SQL code. The first snippet is a simple SELECT statement:

```
1 •  select new_function(1)
2
```

The second snippet is a CREATE FUNCTION statement:

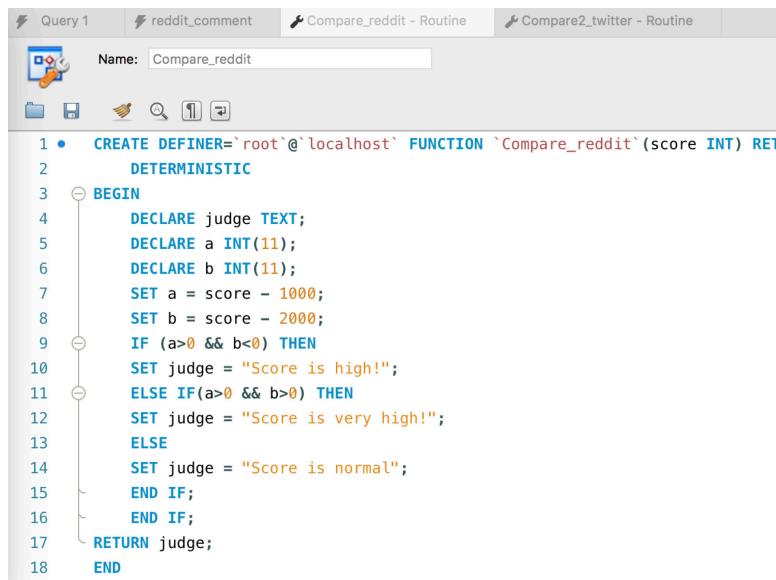
```
1 •  CREATE DEFINER='root'@'localhost' FUNCTION `new_function2`(id int ) RETURNS varchar(255) CHARSET utf8mb4
2      READS SQL DATA
3      DETERMINISTIC
4  BEGIN
5      Declare titles varchar(255) default '';
6      select title into titles from youtube where PlayerID = id ;
7      RETURN titles;
8
9  END
```

Below the query editor is a result grid pane. It has a header row with "Result Grid" and "Filter Rows:" followed by a search bar and an export button. The main body of the grid contains one row of data:

new_function(1)
UCQce-JnV10S_KHm6UedOPAw

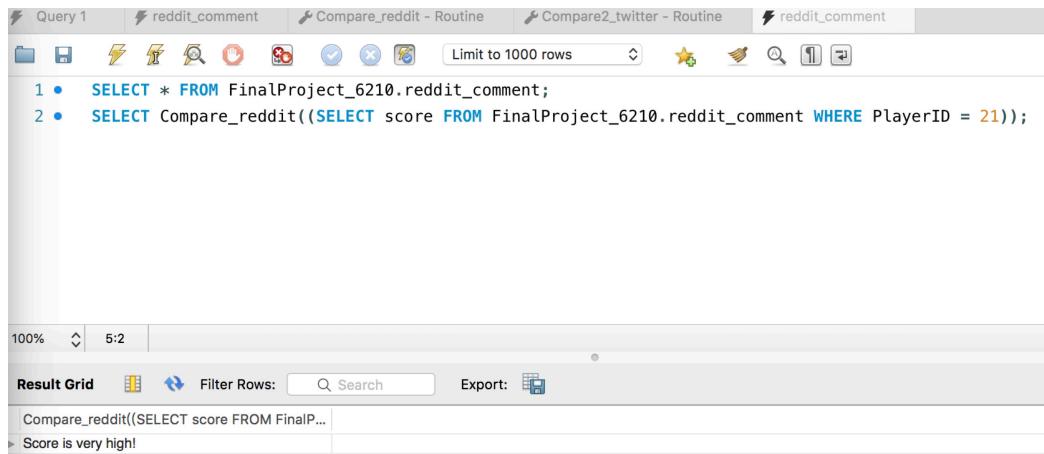
Function 5

- 1.Judge whether the score of players you enter is very high.
2. If score is higher than 1000, it shows high. If score is higher than 2000, it shows very high. Otherwise, it shows normal.



The screenshot shows the MySQL Workbench interface with a query editor window. The title bar says "Query 1". The query itself is:

```
1 • CREATE DEFINER='root'@'localhost' FUNCTION `Compare_reddit`(score INT) RET
2     DETERMINISTIC
3     BEGIN
4         DECLARE judge TEXT;
5         DECLARE a INT(11);
6         DECLARE b INT(11);
7         SET a = score - 1000;
8         SET b = score - 2000;
9         IF (a>0 && b<0) THEN
10             SET judge = "Score is high!";
11         ELSE IF(a>0 && b>0) THEN
12             SET judge = "Score is very high!";
13         ELSE
14             SET judge = "Score is normal";
15         END IF;
16     END IF;
17     RETURN judge;
18 END
```



The screenshot shows the MySQL Workbench interface with a query editor window. The title bar has tabs for "Query 1", "reddit_comment", "Compare_reddit - Routine", "Compare2_twitter - Routine", and "reddit_comment". The query is:

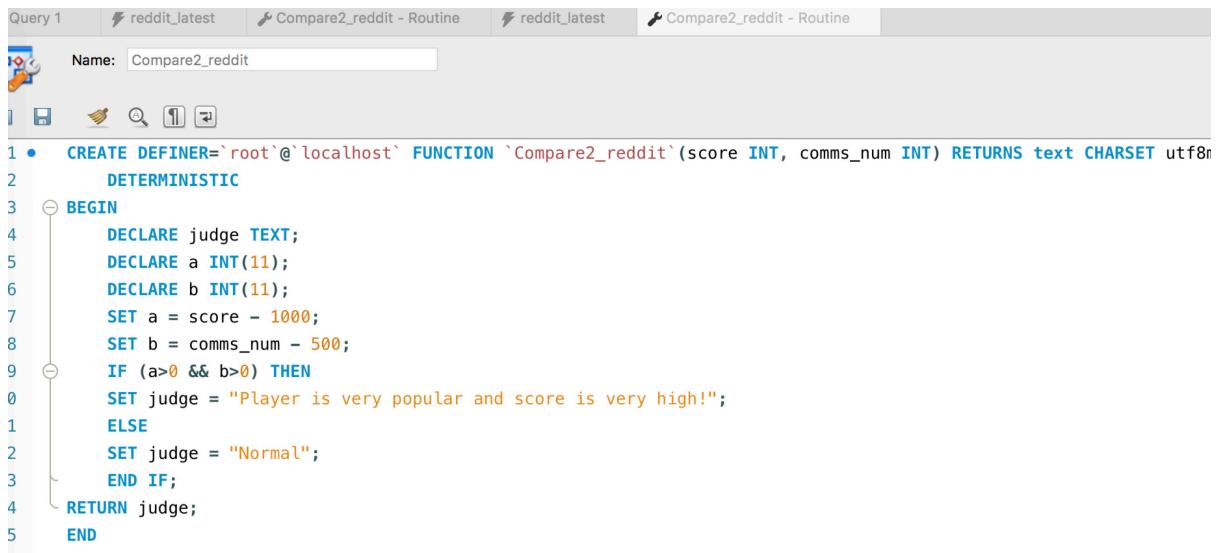
```
1 • SELECT * FROM FinalProject_6210.reddit_comment;
2 • SELECT Compare_reddit((SELECT score FROM FinalProject_6210.reddit_comment WHERE PlayerID = 21));
```

The results grid shows one row:

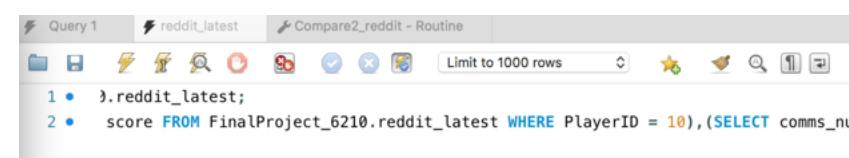
Compare_reddit((SELECT score FROM FinalP...)
Score is very high!

Function 6

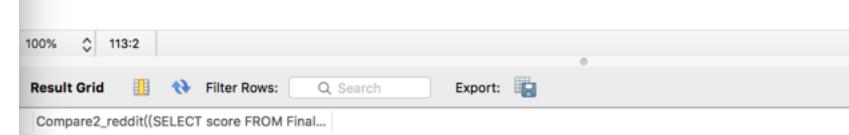
- 1.Judge whether the player you enter is very popular and the score's level.
2. If score is more than 1000 and comms_num is bigger than 500, this player is very popular and score is very high! Otherwise this player is normal.



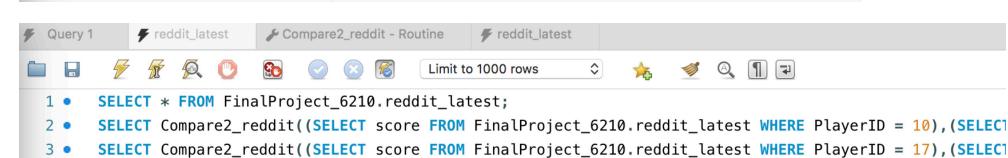
```
Name: Compare2_reddit
CREATE DEFINER='root'@'localhost' FUNCTION `Compare2_reddit`(score INT, comms_num INT) RETURNS text CHARSET utf8
DETERMINISTIC
BEGIN
    DECLARE judge TEXT;
    DECLARE a INT(11);
    DECLARE b INT(11);
    SET a = score - 1000;
    SET b = comms_num - 500;
    IF (a>0 && b>0) THEN
        SET judge = "Player is very popular and score is very high!";
    ELSE
        SET judge = "Normal";
    END IF;
    RETURN judge;
END
```



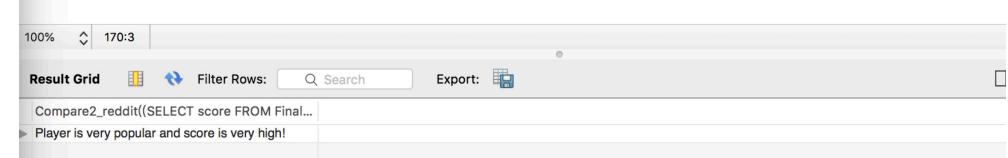
```
Query 1
1 • 3.reddit_latest;
2 •  score FROM FinalProject_6210.reddit_latest WHERE PlayerID = 10),(SELECT comms_num
```



Result Grid
Compare2_reddit((SELECT score FROM Final... Normal



```
Query 1
1 •  SELECT * FROM FinalProject_6210.reddit_latest;
2 •  SELECT Compare2_reddit((SELECT score FROM FinalProject_6210.reddit_latest WHERE PlayerID = 10),(SELECT comms_num FROM FinalProject_6210.reddit_latest WHERE PlayerID = 10));
3 •  SELECT Compare2_reddit((SELECT score FROM FinalProject_6210.reddit_latest WHERE PlayerID = 17),(SELECT comms_num FROM FinalProject_6210.reddit_latest WHERE PlayerID = 17));
```



Result Grid
Compare2_reddit((SELECT score FROM Final... Player is very popular and score is very high!

Function 7

- 1.Judge whether the player you enter is very popular
2. If in twitter, the followers is bigger than 1000000 even though posts is less than 100, this player is very popular!

The screenshot shows the MySQL Workbench interface. On the left, the database structure is visible with a tree view. Under 'Functions', the 'Compare_twitter' function is selected and highlighted in blue. The main pane displays the SQL code for the function:

```
1 • CREATE DEFINER='root'@'localhost' FUNCTION `Compare_twitter` (posts INT, followers INT) RETURNS text CHARSET utf8
2   DETERMINISTIC
3   BEGIN
4     DECLARE judge TEXT;
5     DECLARE a INT(11);
6     DECLARE b INT(11);
7     SET a = posts - 100;
8     SET b = followers - 1000000;
9     IF (a<0 && b>0) THEN
10       SET judge = "Player is very popular!";
11     ELSE
12       SET judge = "Normal";
13     END IF;
14   RETURN judge;
15 END
```

The screenshot shows the MySQL Workbench interface with the tab 'Compare2_twitter - Routine'. The query window contains the following SQL code:

```
1 • ject_6210.twitter_post;
2 • r((SELECT Likes FROM FinalProject_6210.twitter_post WHERE Userid=372525649));
```

The screenshot shows the MySQL Workbench interface with the tab 'Result Grid'. The results of the executed query are displayed in a grid:

Result Grid	Filter Rows:	Search	Export:
Compare2_twitter((SELECT Likes FROM Final...			
▶ Normal			

Function 8

1. Judge whether the player you enter is very popular
2. If in twitter, the followers is bigger than 1000000 even though posts is less than 100, this player is very popular!

The screenshot shows the 'Compare2_twitter - Routine' tab in MySQL Workbench. The function definition is as follows:

```
1 • CREATE DEFINER='root'@'localhost' FUNCTION `Compare2_twitter`(likes INT) RETURNS text CHARSET utf8mb4
2   DETERMINISTIC
3   BEGIN
4     DECLARE judge TEXT;
5     DECLARE a INT(11);
6     SET a = likes - 3000;
7     IF (a>0) THEN
8       SET judge = "Fans of this player is very popular!";
9     ELSE
10      SET judge = "Normal";
11    END IF;
12    RETURN judge;
13  END
```

The screenshot shows the 'Query 1' tab in MySQL Workbench with the following SQL code:

```
1 • SELECT * FROM FinalProject_6210.reddit_latest;
2 • SELECT Compare2_reddit((SELECT score FROM FinalProject_6210.reddit_latest WHERE PlayerID = 10),(SELECT score FROM FinalProject_6210.reddit_latest WHERE PlayerID = 17));
3 • SELECT Compare2_reddit((SELECT score FROM FinalProject_6210.reddit_latest WHERE PlayerID = 17),(SELECT score FROM FinalProject_6210.reddit_latest WHERE PlayerID = 10));
```

The screenshot shows the 'Result Grid' tab in MySQL Workbench with the following output:

PlayerID	Score	Comparison
10	1000000	Player is very popular and score is very high!
17	1000000	Player is very popular and score is very high!

Tables about tags

In this section, we have to answer several questions related to the tags.

1. Show our domain tags:

Here are our domain tags collecting from the Twitter and Instagram .

The screenshot shows a MySQL Workbench interface with a query editor containing the SQL command: `1 • select * from domain_tag`. Below the editor is a "Result Grid" pane. The grid has two columns: "Initial hashtag" and "Tags". The "Initial hashtag" column contains hashtags like "risetogether", "marchmadness", "beststeakhousehandsdown", etc. The "Tags" column contains lists of words, such as "[AD]" or "[Blessed]".

Initial hashtag	Tags
risetogether	[AD]
marchmadness	[AD]
beststeakhousehandsdown	[AD]
historic	[AD]
str8up	[AD]
detroitbasketball	[AD]
ripninthegreat	[AD]
risetogether	[AD]
airforce1	[AD]
glorytogod	[AD]
detroitbasketball	[AD]
golddontquit	[AD]
retirement	[AD]
menhaveskintoo	[AD]
tmc	[AD]
tgbtg	[AD]
happyeaster	[AD]
holdat	[AD]
legacy	[AD]
unfinishedbusiness	[AD]

2. Show synonyms words:

We use python package nltk.wordnets to predict the meaning of the words.

The screenshot shows a MySQL Workbench interface with a query editor containing the SQL command: `1 • select * from synonyms`. Below the editor is a "Result Grid" pane. The grid has two columns: "Initial hashtag" and "Tags". The "Initial hashtag" column contains words like "Blessed", "AD", etc. The "Tags" column contains lists of words, such as "[Blessed]" or "[AD]".

Initial hashtag	Tags
[AD]	[AD]
[Blessed]	[Blessed]
[AD]	[AD]
[Blessed]	[Blessed]
[AD]	[AD]
[Blessed]	[Blessed]
[AD]	[AD]
[Blessed]	[Blessed]

3. Show our mis-spellings table:

1 • `select * from mis_data`

2

id	Tags	Mis1	Mis2	Mis3	Mis4	Mis5
1	marchmadness	march madness	marchioness	madness	manifoldness	marshiness
2	beststeakhousehandsdown	steakhouse	beststeakhousehandsdown			
3	historic	historic				
4	str8up	strumpton	Strauss	struck	strung	str8up
5	detroitbasketball	basketball	detroitbasketball			
6	ripnipthegreat	weatherstripping	ripnipthegreat			
7	risetogther	rise together	togetherness	altogether	together	Meriwether
► 8	airforce1	airfoil	Wilberforce	perforce	airframe	airforce1
9	glorytgod	Glory	glory	glorification	glorious	glorytgod
10	detroitbasketball	basketball	detroitbasketball			
11	golddontquit	goldsmiths	goldsmith	Goldstein	Goldsmith	golddontquit
12	retirement	retirement	retirements			
13	menhaveskintoo	menhaveskintoo				
14	tmc	tic	Tm	TM	TLC	THC
15	tgbtg	tgbtg				
16	happyeaster	happy easter	happenstance	southeaster	noreaster	easternmost
17	holdat	hold at	holdall	holdout	Holder	Holden
18	legacy	legacy				
19	unfinishedbusiness	unfinished busin...	unfinished	businesspe...	businesspers...	businessp...

4. Show our categories of tag:

The package `nltk.word_tokenize` can give a specific label of every tag. We can make category according to this label.

1 • `select * from category`

2

Noun	Noun_plural	cardinal_digit	adjective	adverb	proper_noun	preposition	verb_past
risetogther	nbpplayoffs	20onpump2	unleashthemanimal	onlyupfromhere	Gemini	NeverEnough	sponsored
marchmadness	spurs	13yearsandout	nbatwitterlive	carolinafamily	HelsRisen	Underground	blessed
beststeakhousehandsdown	shesaidyes	6	unleaded	teamprogressiondaily	GloryToGod	Underground	sponsored
historic	madukes	5thmaster	NBATwitterLive	sponsoredobviously	Kobe4	from	blessed
str8up	gobucks	5minutesfromhome	UnleashTheManimal	liningfamily	BBN	from	blessed
detroitbasketball	teaguetuesdays	94	NBATwitterLive	spanishfamily	BBN	from	blessed
ripnipthegreat	bigfacts	7yearsyoung	uncommon	literally	BBN	from	staytuned
risetogther	60wins	10	FREE	grinddaily	HelsRisen	FacebookDown	MostHated
airforce1	iguazufalls	3	NbaTwitterLive	spursfamily	BetterEveryDay	BearDown	MostHated
glorytgod	playoffs	22	global	spursfamily	LigaEndesa	WhatsappDown	pressureapplied

Citations

1. https://github.com/nikbearbrown/INFO_6210/blob/master/Week_2/NBB_IMDB_Web_Scraper.ipynb
2. https://github.com/danielfrg/espn-nba-scrapy/blob/master/src/scrap/get_players.py
3. <http://www.gregreda.com/2015/02/15/web-scraping-finding-the-api/>

4. <http://savvastjortjoglou.com/nba-shot-sharts.html>
5. <https://instaloader.github.io/index.html>
6. https://sebastianraschka.com/Articles/2014_sqlite_in_python_tutorial.html
7. <http://www.dcs.bbk.ac.uk/~ptw/teaching/DBM/er.pdf>
8. <https://www.dataquest.io/blog/python-pandas-databases/>
9. https://github.com/nikbearbrown/INFO_6210/tree/master/Lahmans_Baseball_Data_base

Contribution

This assignment is 100% done by our team, and 5% of the information and code that help me to do this assignment are from the Internet as the citations shown.

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