

Queries you must answer about your physical model

1. What user posted this tweet?

```
277 • SELECT tu.Twitter_Handle
278 FROM TWITTER_USER AS tu
279 INNER JOIN TWEETS_DETAILS AS td On tu.Twitter_Handle = td.Twitter_Handle
280 WHERE td.Tweet_Text LIKE '%LeBron James%' OR td.Tweet_Text LIKE '%Nike%';
281
```

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

	Twitter_Handle
▶	ESPNBBA
	NBA

Π $tu . twitter_handle$

σ $td . tweet_text \text{ LIKE } '%LeBron James%' \text{ OR } td . tweet_text = '%Nike%'$

$(\rho_{tu} \text{ twitter_user } \bowtie_{tu . twitter_handle = td . twitter_handle}$
 $\rho_{td} \text{ tweets_details})$

2. When did the user post this tweet?

```
282 • SELECT tu.Twitter_Handle, td.created_at
283 FROM TWITTER_USER AS tu
284 INNER JOIN TWEETS_DETAILS AS td On tu.Twitter_Handle = td.Twitter_Handle
285 WHERE td.Tweet_Text LIKE '%LeBron James%' OR td.Tweet_Text LIKE '%Nike%';
286
```

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

	Twitter_Handle	created_at
▶	ESPNBBA	2022-11-11 03:35:49
	NBA	2022-11-11 21:20:56

Π $tu . twitter_handle, tu.created_at$

σ $td . tweet_text \text{ LIKE } '%LeBron James%' \text{ OR } td . tweet_text = '%Nike%'$

$(\rho_{tu} \text{ twitter_user } \bowtie_{tu . twitter_handle = td . twitter_handle}$
 $\rho_{td} \text{ tweets_details})$

3. What tweets have this user posted in the past 24 hours?

```

287 • SELECT tu.Name, td.created_at, td.Tweet_Text
288 FROM TWITTER_USER AS tu
289 INNER JOIN TWEETS_DETAILS AS td On tu.Twitter_Handle = td.Twitter_Handle
290 WHERE td.Tweet_Text LIKE '%LeBron James%' OR td.Tweet_Text LIKE '%Nike%' and
291 created_at > DATE_SUB(CURDATE(), INTERVAL 1 DAY);
292

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Name	created_at	Tweet_Text	
NBA on ESPN	2022-11-11 03:35:49	RT @mcten: LeBron James has been downgrad...	
NBA	2022-11-11 21:20:56	RT @nikebasketball: Which 2022-23 Nike NBA Ci...	

Π tu . name, td . created_at, td . tweet_text

σ td.Tweet_Text LIKE '%LeBron James%' OR td.Tweet_Text LIKE '%Nike%' AND created_at > DATE_SUB(CURDATE(), INTERVAL 1 DAY);

$(\rho_{tu} \text{ twitter_user} \bowtie_{tu . twitter_handle = td . twitter_handle}$
 $\rho_{td} \text{ tweets_details})$

4.How many tweets have this user posted in the past 24 hours?

```

293 • SELECT tu.Name, td.created_at, count(td.Tweet_Text)
294 FROM TWITTER_USER AS tu
295 INNER JOIN TWEETS_DETAILS AS td On tu.Twitter_Handle = td.Twitter_Handle
296 WHERE td.Tweet_Text LIKE '%LeBron James%' OR td.Tweet_Text LIKE '%Nike%' and
297 created_at > DATE_SUB(CURDATE(), INTERVAL 1 DAY);
298

```

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
Name	created_at	count(td.Tweet_Text)	
NBA on ESPN	2022-11-11 03:35:49	2	

Π tu . name, td . created_at, COUNT(td . tweet_text)

σ td.Tweet_Text LIKE '%LeBron James%' OR td.Tweet_Text LIKE '%Nike%' AND created_at > DATE_SUB(CURDATE(), INTERVAL 1 DAY);

$(\rho_{tu} \text{ twitter_user} \bowtie_{tu . twitter_handle = td . twitter_handle}$
 $\rho_{td} \text{ tweets_details})$

6. What keywords/ hashtags are popular?

```

304 • SELECT tg.Tags, MAX(tu.Followers_count)
305 FROM TWEETS_DETAILS AS td
306 INNER JOIN Tweet_Tags AS tg ON td.TWEET_ID = tg.TWEET_ID
307 INNER JOIN Twitter_User tu ON tu.Twitter_Handle = td.Twitter_Handle;
308

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	Tags	MAX(tu.Followers_count)
▶	None	52433538

Π tg . tags, MAX (followers_count)

γ MAX (followers_count)

$(\rho_{td} \text{ tweets_details} \bowtie_{td.tweet_id = tg.tweet_id} \bowtie_{tu.Twitter_Handle = td.Twitter_Handle}$

$\rho_{tg} \text{ tweet_tags})$

7. What tweets are popular?

```

309 • SELECT Tweet_Text, MAX(tu.Followers_count)
310 FROM TWEETS_DETAILS AS td
311 INNER JOIN Twitter_User tu ON tu.Twitter_Handle = td.Twitter_Handle;
312

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	Tweet_Text	MAX(tu.Followers_count)
▶	.@CJMcCollum had to ask @andre about Memp...	52433538

Π tweet_text, MAX (followers_count)

γ MAX (followers_count)

$(\rho_{td} \text{ tweets_details} \bowtie_{tu.twitter_handle = td.twitter_handle}$

$\rho_{tu} \text{ twitter_user})$