

Assignment 4

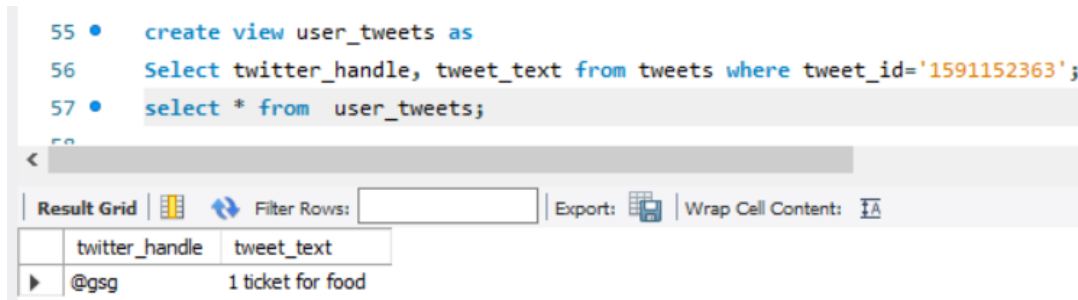
Views for all Use Cases

1. What user posted this tweet?

Query:

```
CREATE VIEW user_tweets AS  
  
SELECT twitter_hANdle, tweet_text  
  
FROM tweets  
  
WHERE tweet_id='1591152363';
```

```
SELECT * FROM user_tweets;
```



```
55 • create view user_tweets as  
56   select twitter_handle, tweet_text from tweets where tweet_id='1591152363';  
57 • select * from user_tweets;
```

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

	twitter_handle	tweet_text
▶	@gsg	1 ticket for food

2. When did the user post this tweet?

Query:

```
CREATE VIEW user_tweeted_dates AS  
  
SELECT twitter_hANdle, tweet_text, CREATED_at  
  
FROM tweets  
  
WHERE CREATED_at ='2008-11-11';
```

```
SELECT * FROM user_tweeted_dates;
```

```

7 • create view user_tweeted_dates as
8   select twitter_handle, tweet_text, created_at from tweets where created_at = '2008-11-11';
9 • select * from user_tweeted_dates;

```

twitter_handle	tweet_text	created_at
@apmc	2 tickets	2008-11-11
@gsg	1 ticket for food	2008-11-11
@nucho	ticket for dance	2008-11-11
@san	ticket for music	2008-11-11
@act	ticket for food	2008-11-11
@cmc	2 tickets	2008-11-11
@fi	1 ticket for food	2008-11-11
@gsc	ticket for dance	2008-11-11
@hnc	ticket for music	2008-11-11

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

Query:

CREATE VIEW past24hrs AS

SELECT tweet_id, tweet_text

FROM tweets

WHERE twitter_handle='@apmc' AND (CREATED_at BETWEEN (curdate()-1) AND curdate());

SELECT * FROM past24hrs;

```

12 • create view past24hrs as
13   select tweet_id, tweet_text from tweets where twitter_handle='@apmc' and (created_at between (curdate()-1) and curdate());
14 • select * from past24hrs;
15

```

tweet_id	tweet_text
1591152362	2 tickets
1591152411	1 ticket for food
1591152412	ticket for dance
1591152413	ticket for music
1591152414	ticket for food
1591152415	2 tickets
1591152416	1 ticket for food
1591152417	2 tickets

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

Query:

CREATE VIEW nooftweets AS

SELECT COUNT(tweet_id) AS NoOfTweets

FROM tweets

WHERE twitter_handle='@apmc' AND (CREATED_at BETWEEN (curdate()-1) AND curdate());

SELECT * FROM nooftweets;

```
--
17 • create view nooftweets as
18 select count(tweet_id) as NoOfTweets from tweets where twitter_handle='@apmc' and (created_at between (curdate()-1) and curdate());
19 • select * from nooftweets;
20
```

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

NoOfTweets
8

5. When did this user join twitter?

Query:

CREATE VIEW twitterjoin AS

SELECT u.twitter_handle, u.join_date

FROM tweets t, user u

WHERE u.twitter_handle = t.twitter_handle AND u.twitter_handle='@apmc';

SELECT * FROM twitterjoin;

```
22 • create view twitterjoin as
23 select u.twitter_handle, u.join_date from tweets t, user u where u.twitter_handle=t.twitter_handle and u.twitter_handle='@apmc';
24 • select * from twitterjoin;
25
```

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

twitter_handle	join_date
@apmc	2022-04-24
@apmc	2022-04-24
@apmc	2022-04-24
@apmc	2022-04-24
@apmc	2022-04-24
@apmc	2022-04-24
@apmc	2022-04-24
@apmc	2022-04-24

6. What keywords/hashtags are popular?

Query:

CREATE VIEW hashpopular AS

SELECT hashtags

FROM tweets

GROUP BY hashtags

HAVING COUNT(tweet_id)>10;

SELECT * FROM hashpopular;

```
27 • create view hashpopular as
28   Select hashtags from tweets group by hashtags having count(tweet_id)>10;
29 • select * from hashpopular;
```

<	
Result Grid	Filter Rows: <input type="text"/> Export: Wrap Cell Content:
hashtags	
op	

7. VIEW an event already registered through Twitter by a user

Query:

CREATE VIEW eventreg AS

SELECT e.event_id

FROM events e, event_tickets t, clubs c, user u

WHERE e.event_id = t.event_id AND c.club_id = e.club_id AND u.twitter_handle = '@apmc';

SELECT * FROM eventreg;

```
32 • create view eventreg as
33   Select e.event_id from events e, event_tickets t, clubs c, user u where
34   e.event_id=t.event_id and c.club_id=e.club_id and u.twitter_handle='@apmc';
35 • select * from eventreg;
36
```

<	
Result Grid	Filter Rows: <input type="text"/> Export: Wrap Cell Content:
event_id	
89798	
89799	
89800	
89801	
89817	
...	

8. VIEW the events happening on a particular date.

Query:

```
CREATE VIEW pdate AS

SELECT * FROM events

WHERE event_date = '2022-08-12';
```

```
SELECT * FROM pdate;
```

```

38 • create view pdate as
39   select * from events where event_date='2022-08-12';
40 • select * from pdate;
41

```

event_id	event_title	event_date	event_time	location_id	event_price	event_type_id	event_theme	status_id	event_perks	club_id
89798	Phi's Delta epsilon's cookies for kids	2022-08-12	12:30:00	L4567	50	ET6777	food	S5656	free cookies	3435

9. VIEW the events that are happening in a location

Query:

```
CREATE VIEW happening AS

SELECT street, city, state

FROM events e, location l, postal_code p

WHERE l.location_id = e.location_id AND p.postalCode = l.postalCode AND p.city = 'boston';
```

```
SELECT * FROM happening;
```

```

48 • create view happening as
49   select street,city,state from events e, location l, postal_code p where l.location_id=e.location_id and p.postalCode=l.postalCode and p.city='boston';
50 • select * from happening;
51

```

street	city	state
Afterhours	Boston	MA
Centennial	Boston	MA
curry student center inner quad	Boston	MA
Robinson quad	Boston	MA
curry cross roads	Boston	MA
curry cross roads	Boston	MA
blackman auditorium	Boston	MA
East village	Boston	MA
340 curry	Boston	MA
curry cross roads	Boston	MA

10.VIEW the events that have free perks

Query:

```
CREATE VIEW freeperks AS

SELECT event_id, event_title, event_perks
```

FROM events

WHERE event_perks LIKE '%Free%';

SELECT * FROM freeperks;

```
48 • create view freeperks as
49   select event_id, event_title, event_perks from events where event_perks like '%Free%';
50 • select * from freeperks;
51
52 • select event_id, event_title, event_theme from events where event_theme='networking';
```

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

event_id	event_title	event_perks
89798	Phi's Delta epsilon's cookies for kids	free cookies
89800	SODA x brigham blood drive	free food
89802	nu stage presents:seussical	free goodies
89803	Kasa mochi donuts fundraiser	free cookies
89805	Green line presents: december local showcase	free food
89807	End of semester networking mixer	free goodies
89808	qdobas fundraiser	free cookies
89810	bundled up in blackman	free food
89812	unions wrapped	free goodies
89813	trash2treasure collection	free cookies
89815	ADHM marketlane	free food

11. VIEW the events that have a particular theme

Query:

CREATE VIEW theming AS

SELECT event_id, event_title, event_theme

FROM events

WHERE event_theme = 'networking';

SELECT * FROM theming;

```
53 • create view theming as
54   select event_id, event_title, event_theme from events where event_theme='networking';
55 • select * from theming;
56
```

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

event_id	event_title	event_theme
89807	End of semester networking mixer	networking
89810	bundled up in blackman	networking
89811	KASA Opa	networking

12.VIEW the events that are being organized by a club

Query:

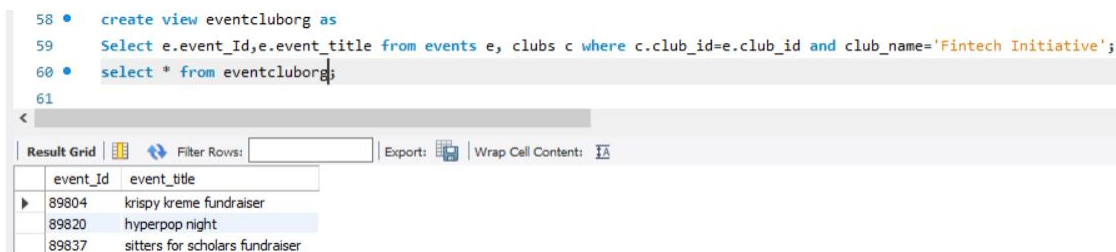
```
CREATE VIEW eventcluborg AS

SELECT e.event_id, e.event_title

FROM events e, clubs c

WHERE c.club_id = e.club_id AND club_name='Fintech Initiative';
```

```
SELECT * FROM eventcluborg;
```



```
58 • create view eventcluborg as
59 select e.event_id,e.event_title from events e, clubs c where c.club_id=e.club_id and club_name='Fintech Initiative';
60 • select * from eventcluborg;
61
```

event_id	event_title
89804	krispy kreme fundraiser
89820	hyperpop night
89837	sitters for scholars fundraiser

13.VIEW the payments made by the user

Query:

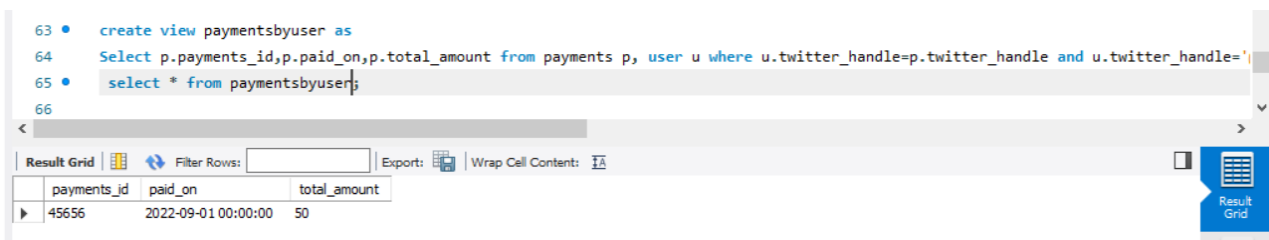
```
CREATE VIEW paymentsbyuser AS

SELECT p.payments_id, p.paid_on, p.total_amount

FROM payments p, user u

WHERE u.twitter_handle = p.twitter_handle AND u.twitter_handle='@apmc';
```

```
SELECT * FROM paymentsbyuser;
```



```
63 • create view paymentsbyuser as
64 select p.payments_id,p.paid_on,p.total_amount from payments p, user u where u.twitter_handle=p.twitter_handle and u.twitter_handle='@apmc';
65 • select * from paymentsbyuser;
66
```

payments_id	paid_on	total_amount
45656	2022-09-01 00:00:00	50

14.VIEW the events that are below a particular price (\$20)

Query:

```
CREATE VIEW belowprice AS

SELECT event_id, event_title

FROM events WHERE event_price < 20;
```

```
SELECT * FROM belowprice;
```

```
68 • create view belowprice as
69   select event_id,event_title from events where event_price<20;
70 • select * from belowprice;
71
```

event_id	event_title
89800	SODA x brigham blood drive
89804	krispy kreme fundraiser
89805	Green line presents: december local showcase
89809	dlt end of semester karaoke night
89813	trash2treasure collection
89814	bridges internation christmas party
89819	nu stage presents: love is madness
89823	dance 4 me 2022
89824	The battle of the bands
89828	Gajok Thanksgiving potluck
89835	barry's bootcamp
89842	northeastern slash fall 2022

15.VIEW the event status

Query:

```
CREATE VIEW statusview AS

SELECT e.event_id, e.event_title, s.event_status

FROM events e, event_status s

WHERE s.status_id = e.status_id;
```

```
SELECT * FROM statusview;
```



```

72  -- 15
73  • create view statusview as
74  select e.event_id, e.event_title, s.event_status from events e, event_status s where s.status_id=e.status_id;
75  • select * from statusview;
76

```

event_id	event_title	event_status
89798	Phi's Delta epsilon's cookies for kids	Completed
89799	roxbury robotics fall showcase	Upcoming
89800	SODA x brigham blood drive	Completed
89801	APO pledge project insomnia cookies sale fundr...	Completed
89802	nu stage presents:seussical	Upcoming
89803	Kasa mochi donuts fundraiser	Upcoming
89804	krispy kreme fundraiser	Completed
89805	Green line presents: december local showcase	Completed
89806	Nu intervarsity end of semseter holiday party	Completed
89807	End of semester networking mixer	Completed
89808	qdoba fundraiser	Upcoming
89809	dt end of semester karaoke night	Completed

16.VIEW the details of the organizer for an event

Query:

CREATE VIEW orgevent AS

SELECT o.organiser_id, o.first_name

FROM events e, clubs c, organiser o

WHERE c.club_id = o.club_id AND c.club_id=e.club_id;

SELECT * FROM orgevent;

```

78  • create view orgevent as
79  select o.organiser_id, o.first_name from events e, clubs c, organiser o where c.club_id=o.club_id and c.club_id=e.club_id;
80  • select * from orgevent;
81

```

organiser_id	first_name
2489	Subhash
2490	Aditya
2491	Bobby
2492	sakshi
2492	sakshi
2492	sakshi
2493	clarese
2493	clarese
2493	clarese
2494	olivia
2494	olivia
2494	olivia

17.VIEW the location of a club

Query:



CREATE VIEW clubloc AS

```
SELECT club_name, club_location  
  
FROM clubs  
  
WHERE club_name = 'Fintech Initiative';
```

```
SELECT * FROM clubloc;
```

```
83 • create view clubloc as  
84   select club_name, club_location from clubs where club_name='Fintech Initiative';  
85 • select * from clubloc;
```

86

<	
Result Grid	Filter Rows: <input type="text"/>
Export: 	Wrap Cell Content: 
club_name	club_location
▶ Fintech Initiative	Northeastern

18. Join Use Case 1:

Query:

```
CREATE VIEW VIEW1 AS  
  
SELECT o.first_name, o.last_name, c.club_location  
  
FROM organiser o  
  
LEFT JOIN clubs c  
  
ON o.club_id = c.club_id  
  
WHERE club_location = 'Northeastern';
```

```
SELECT * FROM VIEW1;
```

```

88 • create view view1 as
89     SELECT o.first_name, o.last_name, c.club_location
90     FROM organiser o LEFT JOIN clubs c
91     ON o.club_id = c.club_id
92     WHERE club_location = 'Northeastern';
93 • select * from view1;
94

```

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

	first_name	last_name	club_location
▶	Subhash	rajaseelan	Northeastern
	Aditya	gopal	Northeastern
	Bobby	dubel	Northeastern
	sakshi	chogule	Northeastern
	claresse	hill	Northeastern
	olivia	meredith	Northeastern
	simran	arneja	Northeastern
	sebastian	kobori	Northeastern
	Ashley	brown	Northeastern
	anna	gegar	Northeastern
	jeremy	koch	Northeastern
	autumn	richardson	Northeastern

view1 39 x

19.Join use case 2:

Query:

```
CREATE VIEW VIEW2 AS
```

```
SELECT e.event_id, e.event_title, e.event_date, es.Event_status, c.club_name
```

```
FROM ((events e LEFT JOIN event_status es ON es.status_id = e.status_id)
```

```
LEFT JOIN clubs c
```

```
ON e.club_id = c.club_id);
```

```
SELECT * FROM VIEW2;
```

```

96 • create view view2 as
97 SELECT e.event_id, e.event_title, e.event_date, es.Event_status, c.club_name
98 FROM((events e LEFT JOIN event_status es
99     ON es.status_id = e.status_id)
100     LEFT JOIN clubs c
101     ON e.club_id = c.club_id);
102 • select * from view2;

```

event_id	event_title	event_date	Event_status	club_name
89798	Phi's Delta epsilon's cookies for kids	2022-08-12	Completed	Aspiring Products Managers club
89799	roxbury robotics fall showcase	2022-08-13	Upcoming	Graduate Student Government
89800	SODA x brigham blood drive	2022-08-14	Completed	Northeastern university Huskies and outing club
89801	APO pledge project insomnia cookies sale fundr...	2022-08-15	Completed	Sanskriti
89802	nu stage presents:seussical	2022-08-16	Upcoming	Art and creative Therapy
89803	Kasa mochi donuts fundraiser	2022-08-17	Upcoming	Chinese markets club
89804	krispy kreme fundraiser	2022-08-18	Completed	Fintech Initiative
89805	Green line presents: december local showcase	2022-08-19	Completed	Game studio club
89806	Nu intervarsity end of semseter holiday party	2022-08-20	Completed	Health Humanities club
89807	End of semester networking mixer	2022-08-21	Completed	healthcare Management and consulting club
89808	qdoba fundraiser	2022-08-22	Upcoming	Husky blockchain organization
89809	dt end of semester karaoke night	2022-08-23	Completed	Insight

view2 41 x

20.Join use case 3:

Query:

CREATE VIEW view3 AS

SELECT e.event_title, e.event_date, e.event_theme, et.ticket_cost

FROM events e RIGHT JOIN event_tickets et

ON et.event_id = e.event_id

GROUP BY et.ticket_cost



ORDER BY e.event_title DESC;

SELECT * FROM view3;

```

105 • create view view3 as
106 SELECT e.event_title, e.event_date, e.event_theme, et.ticket_cost
107 FROM events e RIGHT JOIN event_tickets et
108 ON et.event_id = e.event_id
109 GROUP BY et.ticket_cost
110 ORDER BY e.event_title DESC;
111 • select * from view3;

```

Result Grid				
Filter Rows: <input type="text"/>				
Export:  Wrap Cell Content: 				
	event_title	event_date	event_theme	ticket_cost
▶	SODA x brigham blood drive	2022-08-14	donation	15
	roxbury robotics fall showcase	2022-08-13	education	30
	Phi's Delta epsilon's cookies for kids	2022-08-12	food	50
	nu stage presents:seussical	2022-08-16	casual	70
	krispy kreme fundraiser	2022-08-18	food	10
	Kasa mochi donuts fundraiser	2022-08-17	food	25
	APO pledge project insomnia cookies sale fundr...	2022-08-15	fundraiser	35

21.Join use case 4:

Query:

```
CREATE VIEW view4 AS
```

```
SELECT UPPER(l.street) AS Decided_location, UPPER(ls.street) AS Held_location
```

```
FROM location l INNER JOIN location ls
```

```
ON l.street = ls.street;
```

```
SELECT * FROM view4;
```

```

113  -- 21
114  • create view view4 as
115  SELECT UPPER(l.street) AS Decided_location , UPPER(ls.street) AS Held_location
116  FROM location l INNER JOIN location ls
117  ON l.street = ls.street;
118  • select * from view4;
119

```

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

Decided_location	Held_location
AFTERHOURS	AFTERHOURS
AFTERHOURS	AFTERHOURS
CENTENNAIL	CENTENNAIL
CENTENNAIL	CENTENNAIL
CURRY STUDENT CENTER INNER QUAD	CURRY STUDENT CENTER INNER QUAD
CURRY STUDENT CENTER INNER QUAD	CURRY STUDENT CENTER INNER QUAD
CURRY STUDENT CENTER INNER QUAD	CURRY STUDENT CENTER INNER QUAD
ROBINSON QUAD	ROBINSON QUAD
CURRY CROSS ROADS	CURRY CROSS ROADS
CURRY CROSS ROADS	CURRY CROSS ROADS
CURRY CROSS ROADS	CURRY CROSS ROADS
CURRY CROSS ROADS	CURRY CROSS ROADS

view4 45

22.Join use case 5:

Query:

```
CREATE VIEW VIEW5 AS
```

```
SELECT p.payment_details, p.total_amount, et.ticket_cost
```

```
FROM payments p
```

```
LEFT JOIN event_tickets et
```

```
ON p.event_id = et.event_id;
```

```
SELECT * FROM VIEW5;
```

```

120 -- 22
121 • create view view5 as
122 SELECT p.payment_details, p.total_amount, et.ticket_cost
123 FROM payments p LEFT JOIN event_tickets et
124 ON p.event_id = et.event_id;
125 • select * from view5;
126

```

Result Grid			
Filter Rows:		Export:	Wrap Cell Content:
payment_details	total_amount	ticket_cost	
Payment Received.Ticket is generated online	50	50	
Payment Received.Ticket should collected at th...	30	30	
Payment Received.Ticket should collected at th...	15	15	
Payment Received.Ticket is generated online	35	35	
Payment Received.Ticket should collected at th...	70	70	
Payment Received.Ticket is generated online	25	25	
Payment Received.Ticket should collected at th...	10	10	
Payment Received.Ticket should collected at th...	15	15	
Payment Received.Ticket is generated online	35	35	
Payment Received.Ticket should collected at th...	70	70	
Payment Received.Ticket should collected at th...	25	25	
Payment Received.Ticket is generated online	15	15	

23. Join use case 6:

Query:

```
CREATE VIEW view6 AS
```

```
SELECT o.first_name, o.last_name, c.club_location, c.club_contact, c.club_email
```

```
FROM organiser o
```

```
LEFT JOIN clubs c
```

```
ON o.club_id = c.club_id
```

```
WHERE club_contact LIKE '9%9';
```

```
SELECT * FROM view6;
```

```

128 • create view view6 as
129     SELECT o.first_name, o.last_name, c.club_location, c.club_contact, c.club_email
130     FROM organiser o LEFT JOIN clubs c
131     ON o.club_id = c.club_id
132     WHERE club_contact LIKE '9%9';
133 • select * from view6;
134

```

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

	first_name	last_name	club_location	club_contact	club_email
▶	Shincheng	Yang	Northeastern	9876727209	rhemazoe2020@gmail.com
	Henry	Wong	Northeastern	9923033359	spaceinvestment@northeastern.edu

24. Join use case 7:

Query:

CREATE VIEW view7 AS

SELECT e.event_title, e.event_perks, p.paid_on

FROM events e

LEFT JOIN payments p

ON e.event_price = p.total_amount

WHERE e.event_price = 70;

SELECT * FROM VIEW7;

Limit to 1000 rows

```

136 • create view view7 as
137     SELECT e.event_title, e.event_perks, p.paid_on
138     FROM events e LEFT JOIN payments p
139     ON e.event_price = p.total_amount
140     WHERE e.event_price = 70;
141 • select * from view7;
142

```

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

	event_title	event_perks	paid_on
▶	nu stage presents:seussical	free goodies	2022-10-17 00:00:00
	nu stage presents:seussical	free goodies	2022-10-13 00:00:00
	nu stage presents:seussical	free goodies	2022-10-10 00:00:00
	nu stage presents:seussical	free goodies	2022-10-06 00:00:00
	nu stage presents:seussical	free goodies	2022-10-03 00:00:00
	nu stage presents:seussical	free goodies	2022-09-29 00:00:00
	nu stage presents:seussical	free goodies	2022-09-24 00:00:00
	nu stage presents:seussical	free goodies	2022-09-19 00:00:00
	nu stage presents:seussical	free goodies	2022-09-14 00:00:00
	nu stage presents:seussical	free goodies	2022-09-10 00:00:00
	nu stage presents:seussical	free goodies	2022-09-05 00:00:00
	End of semester networkin...	free goodies	2022-10-17 00:00:00

25.Join use case 8:

Query:

```
CREATE VIEW view8 AS
```

```
SELECT e.event_title, e.event_theme, et.event_type_name
```

```
FROM events e RIGHT JOIN event_type et
```



```
ON et.event_type_id = e.event_type_id;
```

```
SELECT * FROM view8;
```

```

144 • create view view8 as
145     SELECT e.event_title, e.event_theme, et.event_type_name
146     FROM events e RIGHT JOIN event_type et
147     ON et.event_type_id = e.event_type_id;
148 • select * from view8;
149

```

Result Grid			
Filter Rows: <input type="text"/>			
Export:  Wrap Cell Content: 			
	event_title	event_theme	event_type_name
▶	Phi's Delta epsilon's cookies for kids	food	Educational
	roxbury robotics fall showcase	education	Dance
	SODA x brigham blood drive	donation	Dance
	APO pledge project insomnia cookies sale fundr...	fundraiser	Music
	nu stage presents:seussical	casual	Music
	Kasa mochi donuts fundraiser	food	Sports
	krispy kreme fundraiser	food	Stand up comedy
	Green line presents: december local showcase	showcase	Stand up comedy
	Nu intervarsity end of semseter holiday party	party	Music
	End of semester networking mixer	networking	Music
	qdoba fundraiser	fundraiser	Stand up comedy
	alt end of semester karaoke night	karaoke	Dance

26. Join use case 9:

Query:

```
CREATE VIEW view9 AS
```

```
SELECT u.twitter_handle, t.tweet_text, too.twitter_order_id
```

```
FROM user u JOIN tweets t
```

```
ON u.twitter_handle = t.twitter_handle
```

```
JOIN twitter_order too
```

```
ON t.tweet_id = too.tweet_id
```

```
WHERE u.twitter_handle = '@john';
```

```
SELECT * FROM view9;
```

```

150 -- 20
151 • create view view9 as
152 SELECT u.twitter_handle, t.tweet_text, too.twitter_order_id
153 FROM user u JOIN tweets t
154 ON u.twitter_handle = t.twitter_handle
155 JOIN twitter_order too
156 ON t.tweet_id = too.tweet_id
157 WHERE u.twitter_handle = '@john';
158 • select * from view9;

```

<			
Result Grid			
Filter Rows:			
Export:			
Wrap Cell Content:			
	twitter_handle	tweet_text	twitter_order_id
▶	@john	1 ticket for food	6818