Murder Mystery Code

--murder​ that occurred sometime on ​Jan.15, 2018​

--and that it took place in ​SQL City

SELECT \*

FROM crime\_scene\_report

WHERE type = 'murder'

AND city = 'SQL City'

AND date = 20180115

--2 witnesses

-- 1st - lives at the last house on "Northwestern Dr" = 14887 Morty Schapiro

-- 2nd - Annabel, lives somewhere on "Franklin Ave" = 16371 Annabel Miller

Select \*

FROM person

WHERE address\_street\_name = "Franklin Ave"

AND LOWER(name) LIKE '%Annabel%'

LIMIT 10

--find their interview transcripts

Select \*

FROM interview

WHERE person\_id IN (14887,16371)

-- The membership number on the "Get Fit Now Gym" bag started with "48Z". Only gold members

-- The man got into a car with a plate that included "H42W"

-- January the 9th

Select p.\*, gfci.\*

FROM drivers\_license as dl

INNER JOIN person as p on dl.id = p.license\_id

INNER JOIN get\_fit\_now\_member as gfm on p.id = gfm.person\_id

INNER JOIN get\_fit\_now\_check\_in as gfci on gfm.id = gfci.membership\_id

WHERE plate\_number LIKE "%H42W%"

AND membership\_status = 'gold'

AND check\_in\_date = 20180109

-- query the interview transcript of the murderer to find the real villain behind this crime

Select \*

FROM interview

WHERE person\_id = 67318

-- hired by a woman

-- 5'5" (65") or 5'7" (67")

-- red hair and she drives a Tesla Model S

-- attended the SQL Symphony Concert 3 times in December 2017.

WITH CTE AS (

SELECT

person\_id,

event\_name,

COUNT(\*)

FROM facebook\_event\_checkin

WHERE date >= 20171201

AND date <= 20171231

GROUP BY person\_id,

event\_name

HAVING COUNT(\*) >=3

)

SELECT p.\*, FB.\*

FROM drivers\_license as dl

INNER JOIN person as p on dl.id = p.license\_id

INNER JOIN CTE as fb on fb.person\_id = p.id

WHERE hair\_color = 'red'

AND gender = 'female'

AND height >= 65

AND height <= 67

AND car\_make = 'Tesla'

AND car\_model = 'Model S'