SQL CASE STUDY :MURDER MYSTERY

In the attached screenshots, you will find the source code and commented description which held me to conclude the real villain!

SOURCE CODE:-

Use your knowledge of the database schema and SQL commands to find out who committed the murder.
When you think you know the answer, go to the next section.

```
1 --select * from crime_scene_report WHERE city = 'SQL City' AND date = '20180115' and type =
2
3  -- descp:Security footage shows that there were 2 witnesses.
4    --The first witness lives at the last house on "Northwestern Dr".
5     --The second witness, named Annabel, lives somewhere on "Franklin Ave".
6
7  -- select * from facebook_event_checkin limit 2;
8
9 --select * from person where  name LIKE 'Annabel%' or
10  --address_street_name = 'Northwestern Dr'
11    --order by address_number desc;
12 -- 14887    Morty Schapiro  118009  4919     Northwestern Dr 111564949 first witness
13 --16371 Annabel Miller  490173  103 Franklin Ave     318771143 second witness
14
15  -- select * from get_fit_now_member where name = 'Annabel';
16  --select * from get_fit_now_check_in;
```

```
17
18   --select * from interview where person_id is 14887 or person_id is 16371 ;
19  -- 14887    I heard a gunshot and then saw a man run out.
20   -- He had a "Get Fit Now Gym" bag. The membership number on the bag started with "48Z".
21    --Only gold members have those bags.
22     --The man got into a car with a plate that included "H42W".
23
24 --16371 I saw the murder happen, and I recognized the killer from my gym
25   --when I was working out last week on January the 9th.
26
27   --select * from crime_scene_report WHERE city = 'SQL City' AND date = '20180115' and type
28
29  -- descp:Security footage shows that there were 2 witnesses.
30    --The first witness lives at the last house on "Northwestern Dr".
31     --The second witness, named Annabel, lives somewhere on "Franklin Ave".
32
33  -- select * from facebook_event_checkin limit 2;
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35 --select * from person where  name LIKE 'Annabel%' or
36   --address_street_name = 'Northwestern Dr'
37    --order by address_number desc;
38 -- 14887    Morty Schapiro  118009  4919     Northwestern Dr 111564949 first witness
39 --16371 Annabel Miller  490173  103 Franklin Ave     318771143 second witness ,
40
```

```sql
43   -- select * from get_fit_now_member where name = 'Annabel';
44   --select * from get_fit_now_check_in;
45
46    --select * from interview where person_id is 14887 or person_id is 16371 ;
47   -- 14887   I heard a gunshot and then saw a man run out.
48    -- He had a "Get Fit Now Gym" bag. The membership number on the bag started with "48Z".
49     --Only gold members have those bags.
50      --The man got into a car with a plate that included "H42W".
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60   --select * from facebook_event_checkin limit 2;
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62 --select * from person where  name LIKE 'Annabel%' or
63    --address_street_name = 'Northwestern Dr'
64     --order by address_number desc;
65 -- 14887    Morty Schapiro  118009  4919    Northwestern Dr 111564949 first witness
66 --16371 Annabel Miller  490173  103 Franklin Ave    318771143 second witness ,
67
68 --select * from get_fit_now_check_in where membership_id like "%48Z%"
69   -- and check_in_date = "20180109";
```

```sql
71  --membership_id     check_in_date    check_in_time    check_out_time
72 --48Z7A                20180109     1600                1730
73 --48Z55                20180109     1530                1700
74
75
76  -- 14887  The membership number started with "48Z". gold members bags.
77  --The man got car with a plate that included "H42W".
78
79 --16371 I saw the murder happen, n I was working out last week on January the 9th.
80
81 --select * from drivers_license where plate_number like '%H42W%' ;
82  --183779 423327 664760
83
84   --select * from person where  id like "%6476%" ;
85    --select * from income ;
86
87  --select * from get_fit_now_member where membership_status is "gold"
88   -- and id in ('48Z7A','48Z55') ; --jeremy 67318 or Joe Germuska 28819 person id
89
90   --select * from interview where person_id is 14887 or person_id is 16371 ;
91
92 --select * from person where id in ('67318') and license_id is ('423327');
93      --423327 license id, ssn is 871539279
94
95  --select * from drivers_license where id in ('173289','423327');
96 --id     age height  eye_color   hair_color  gender  plate_number    car_make    car_model
97 --42332730  70      brown       brown       male        0H42W2      Chevrolet   Spark LS
```

```
09 --select p.* , d.plate_number as "IS"
00 --from person p
01 --left join drivers_license as d
02 --on p.license_id = d.id
03 --where p.id in ('67318','28819');
04
05 --INSERT INTO solution VALUES (1, 'Jeremy Bowers');
06
07     --   SELECT value FROM solution;
08 --select * from interview where person_id in ('67318') ;
09 --I was hired by a woman with a lot of money.
10 --I don't know her name but I know she's around 5'5" (65") or 5'7" (67").
11 --She has red hair and she drives a Tesla Model S.
12 -- she attended the SQL Symphony Concert 3 times in December 2017.
13
14 --select * from drivers_license where car_make is ('Tesla') and car_model is ('Model S')
15 --and hair_color is ('red')and height is ('65')  ; -- plate_number is 917UU3,id is 918773
16
17 --select d.plate_number,p.id from person p left join drivers_license d
18   --on p.id = d.plate_number;
19
20
21 -- person id 97207
22 --select * from person where id in (99716,24556);
```

```
124 select * from person as  p
125 left join drivers_license as d
126 on p.license_id = d.id
127 where p.id in (99716,24556);
128
129
```

OUTPUT:-

Check your solution

Did you find the killer?

```
1 INSERT INTO solution VALUES (1, 'Miranda Priestly');
2
3          SELECT value FROM solution;
```

RUN ⇓   RESET

value
Congrats, you found the brains behind the murder! Everyone in SQL City hails you as the greatest SQL detective of all time. Time to break out the champagne!