## Murder\_in\_SQL\_City

1. SELECT \* FROM crime\_scene\_report WHERE city = "SQL City" AND date = "20180115" AND type = "murder";

date type	e description	city
20180115   murc	der   Security footage shows that there were 2 witnesses	s.   SQL City
	The first witness lives at the last house on	
	"Northwestern Dr". The second witness, named	
	Annabel, lives somewhere on "Franklin Ave".	

- 2. SELECT SQL FROM sqlite\_master WHERE name = 'person';
  - => CREATE TABLE person (id integer PRIMARY KEY, name text, license\_id integer, address\_number integer, address\_street\_name text, ssn CHAR REFERENCES income (ssn), FOREIGN KEY (license\_id) REFERENCES drivers\_license (id))
- 3. SELECT name FROM person WHERE address\_street\_name = "Northwestern Dr" AND address\_number = (SELECT MAX(address\_number) FROM person WHERE address\_street\_name = "Northwestern Dr");

```
| name
| -----|
| Morty Schapiro |
```

## OR

SELECT id, name, address\_number, address\_street\_name FROM person WHERE address\_street\_name
= "Northwestern Dr" ORDER BY address\_number DESC LIMIT 1;

- 4. SELECT sql FROM sqlite\_master where name = "interview";
  => CREATE TABLE interview (person\_id integer, transcript text, FOREIGN KEY (person\_id)
  REFERENCES person(id))
- 5. SELECT id FROM person WHERE name = "Morty Schapiro";

```
| id |
|----|
| 14887 |
```

6. and then select the transcript using that:
SELECT transcript FROM interview WHERE person id=14887;

```
transcript

I heard a gunshot and then saw a man run out. He had a "Get Fit Now |

Gym" bag. The membership number on the bag started with "482". Only |

gold members have those bags. The man got into a car with a plate |

that included "H42W".
```

Alternative query to get both transscripts together

```
SELECT * FROM interview WHERE person_id IN ("14887", "16371");
```

7. SELECT sql FROM sqlite\_master WHERE name="get\_fit\_now\_member";

```
=> CREATE TABLE get_fit_now_member ( id text PRIMARY KEY, person_id integer, name text, membership_start_date integer, membership_status text,

FOREIGN KEY (person_id) REFERENCES person(id) )
```

8. SELECT name, membership\_status FROM get\_fit\_now\_member WHERE id LIKE "48Z%" AND membership status="gold";

9. SELECT name, membership\_status, membership\_start\_date FROM get\_fit\_now\_member WHERE id LIKE "48Z%" AND membership\_status="gold";

Hmmm - they weren't members in 2015. So, go back to the other witness.

11. SELECT transcript FROM interview WHERE person id=16371;

```
transcript

"I saw the murder happen, and I recognized the killer from my gym when I |

was working out last week on January the 9th."
```

12. SELECT sql FROM sqlite\_master WHERE name="get\_fit\_now\_check\_in";

```
=> CREATE TABLE get_fit_now_check_in ( membership_id text, check_in_date integer, check_in_time integer, check_out_time integer, FOREIGN KEY (membership id) REFERENCES get fit now member(id) )
```

13. SELECT \* FROM get fit now member WHERE name = "Annabel Miller";

14. SELECT \* FROM get\_fit\_now\_check\_in WHERE membership\_id = 90081 AND check\_in\_date = "20180109";

15. SELECT \* FROM get\_fit\_now\_check\_in WHERE check\_in\_date = "20180109" AND membership\_id LIKE "48Z%" AND check out time <= 1700;

16. SELECT name, membership\_status FROM get\_fit\_now\_member WHERE id LIKE "48Z55";

-	name	membership_status
	Jeremy Bowers	gold

## 17. CORRECT!