

PLAYER 1



HIGHSCORE 2500



PLAYER 2

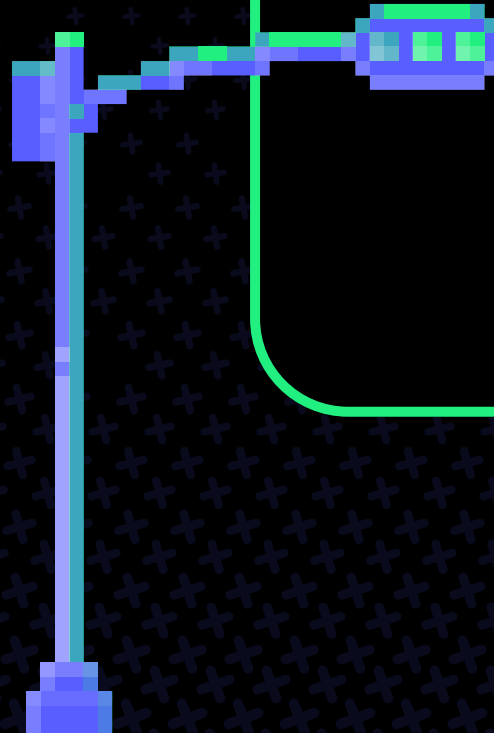
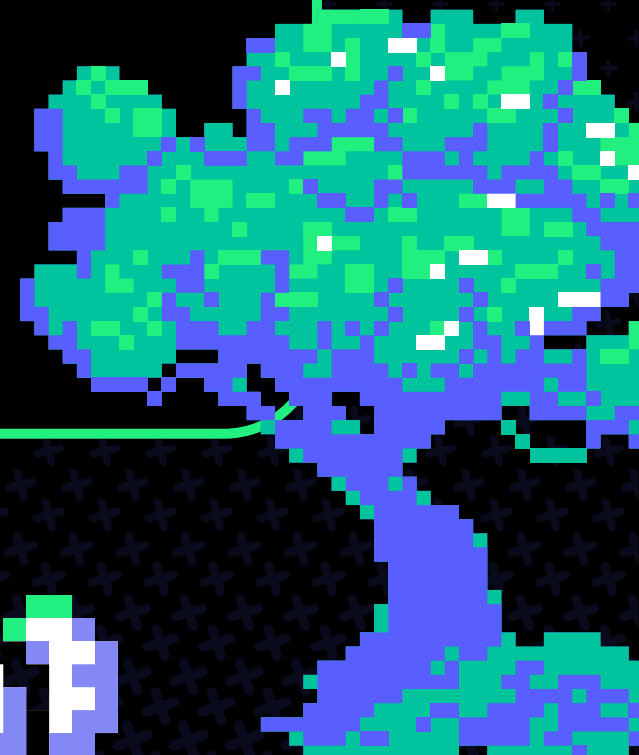
SQL MURDER MYSTERY

WITH CASEY WALTERS

START

MENU

SIGN IN



MENU

🗡️ 01

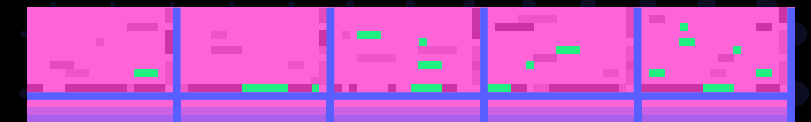
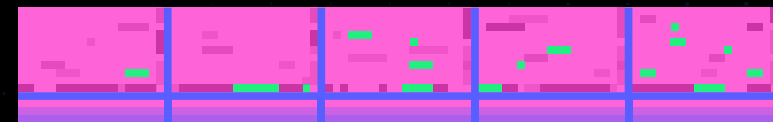
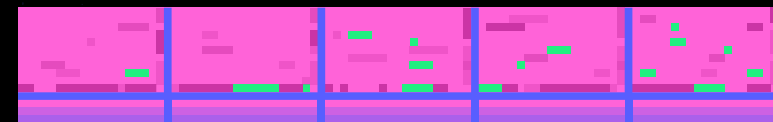
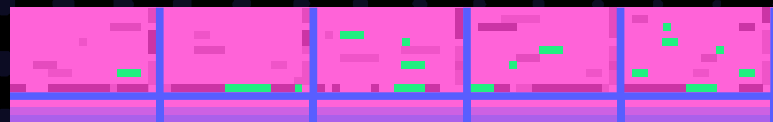
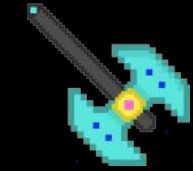
💎 07

★ 12



AGENDA

◆ TOPICS COVERED



DATABASE CRASH
COURSE

MURDER!

PAIR PROGRAMMING

SOLUTION
WALKTHROUGH

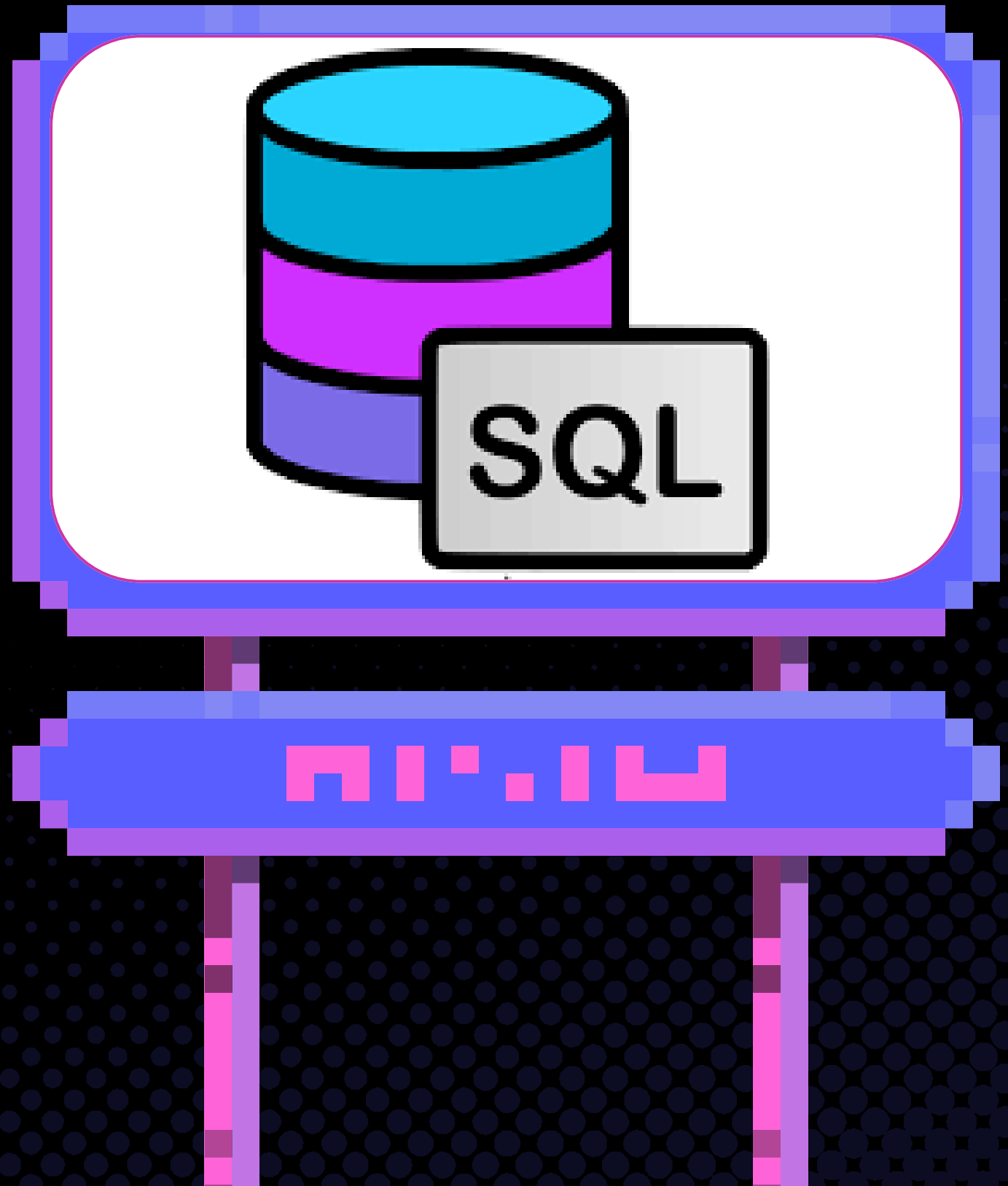


INTRO TO SQL:

SQL = STRUCTURED QUERY LANGUAGE

DATABASE = SYSTEM FOR MANAGING INFORMATION. THERE'S LOTS OF DIFFERENT TYPES, BUT ONE OF THE MOST WELL KNOWN TYPES IS A RELATIONAL DATABASE.

ERD = ENTITY RELATIONSHIP DIAGRAM.
[THE MAP!]



QUERIES

SELECT

➡ WHAT COLUMNS?

What Attributes are you interested in seeing?

Use a wildcard! *

FROM

➡ WHAT TABLE?

What table(s) has the columns you mentioned above?

Tables Plural? JOIN!

WHERE

➡ FILTER!

Use where to filter your results. Not required!

BETWEEN, AND, LIKE, COUNT, MIN, MAX, ORDER BY

person	
id	INTEGER
name	TEXT
license_id	INTEGER
address_number	INTEGER
address_street_name	TEXT
ssn	CHAR

```
SELECT ID, NAME, SSN  
FROM person  
WHERE id = '12345'
```

QUERIES

```
SELECT *  
FROM person  
WHERE address_number
```

```
SELECT *  
FROM person  
WHERE name like 'C%'
```

MENU

🔑 01

💎 07

★ 12

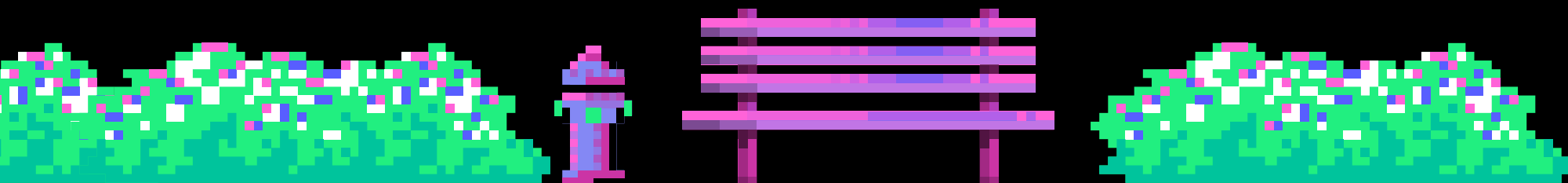


PREMISE

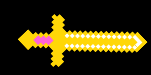
A DETECTIVE NEEDS OUR HELP
SOLVING A MURDER IN SQL CITY.

CLICK START BELOW!

START



MENU



01



07



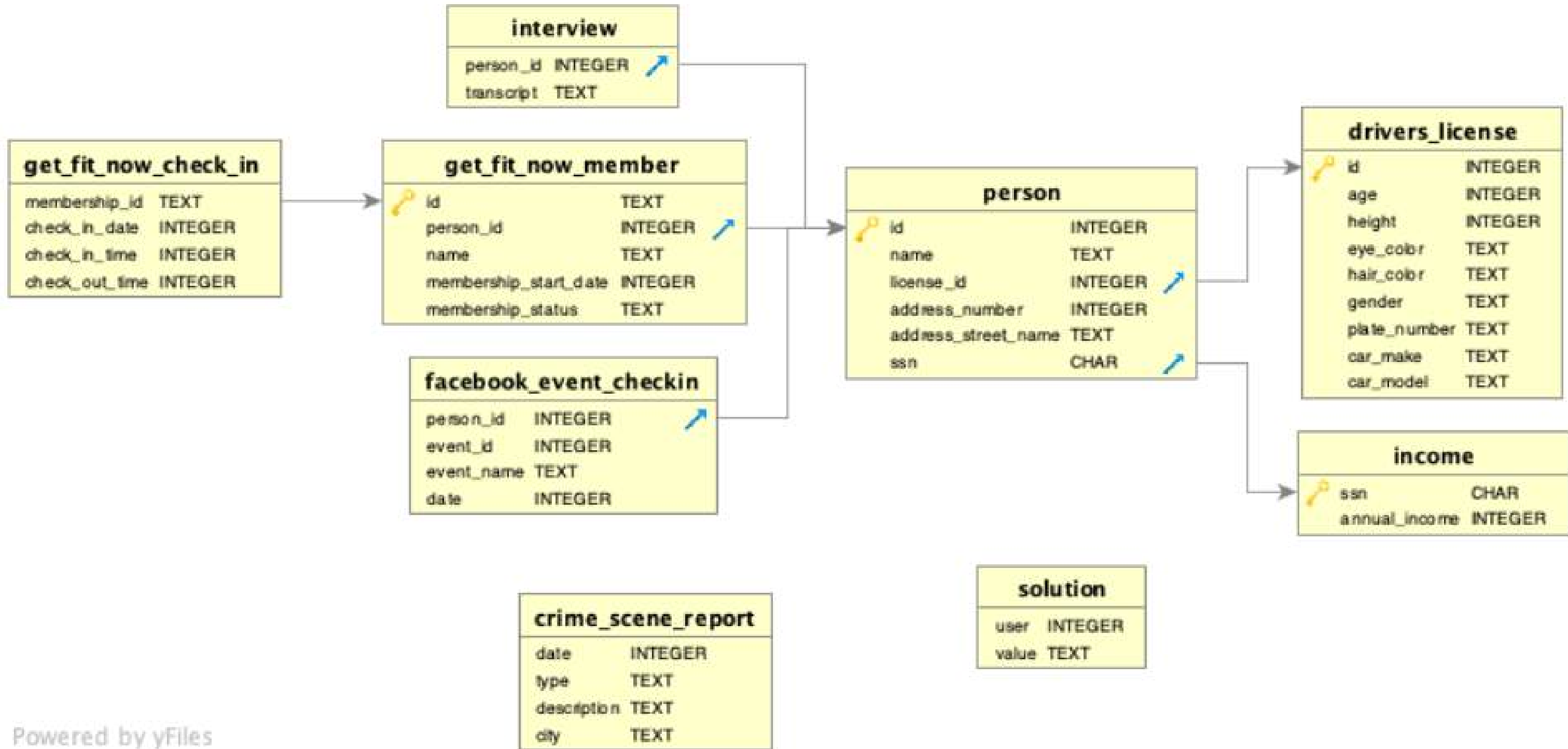
12

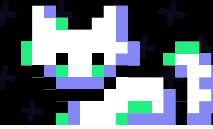
WHAT WE KNOW:

- ➔ MURDER IN SQL CITY
- ➔ JAN 15, 2018
- ➔ WE HAD A CRIME REPORT AT ONE POINT

crime_scene_report	
date	INTEGER
type	TEXT
description	TEXT
city	TEXT

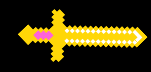
HINT: CASE SENSITIVE!





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

MENU



01



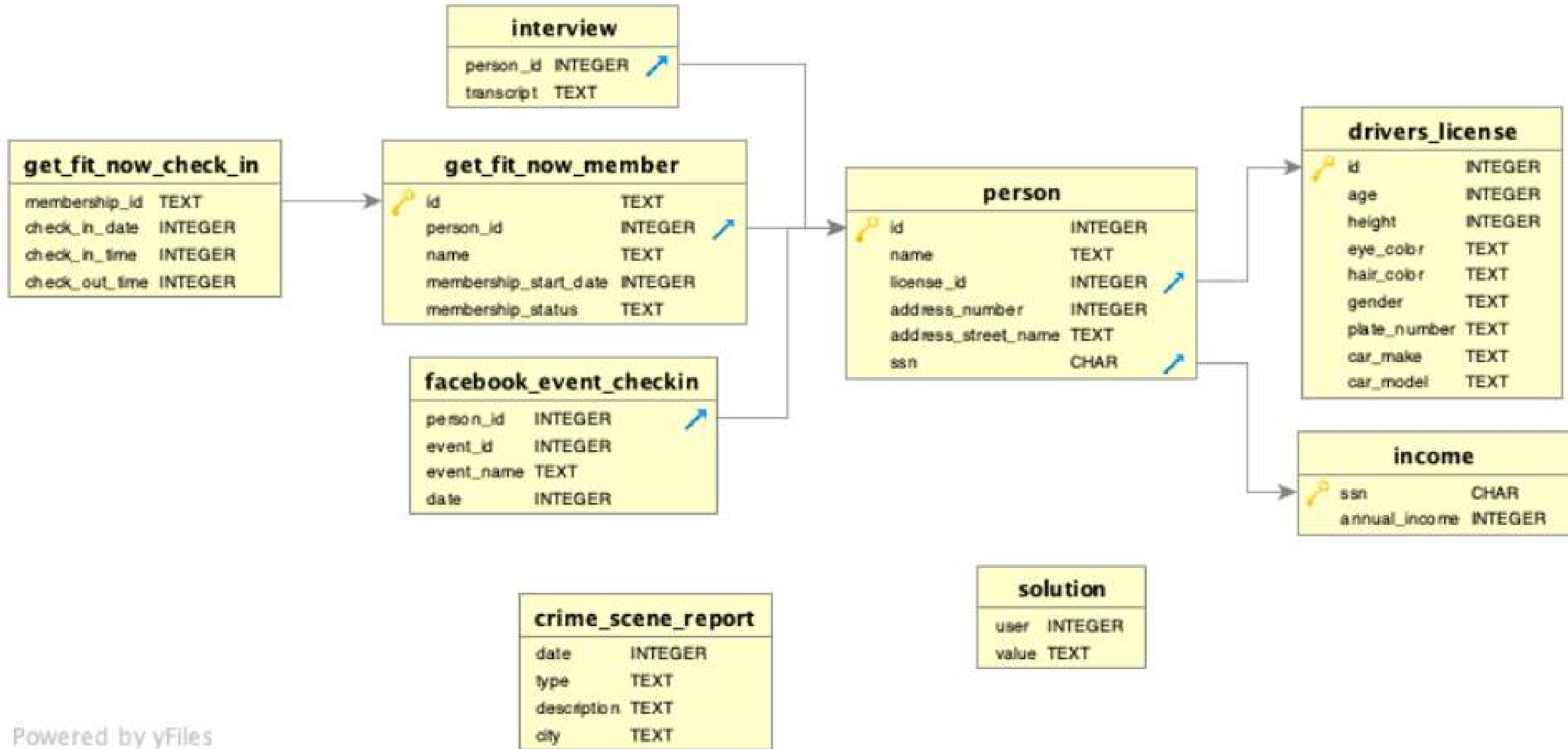
07



12

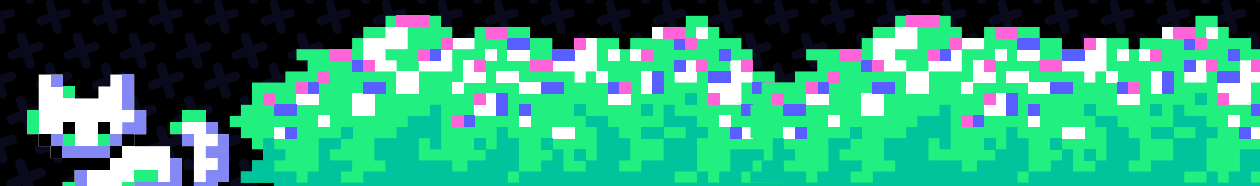
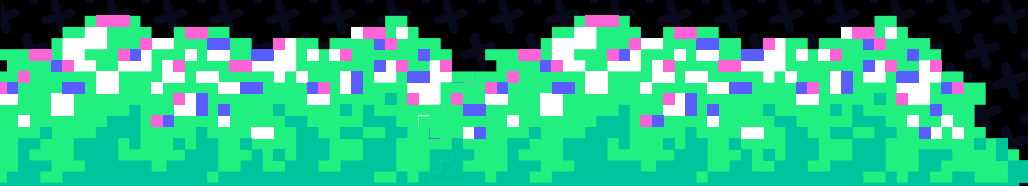
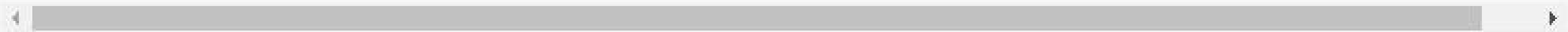
WHAT WE KNOW:

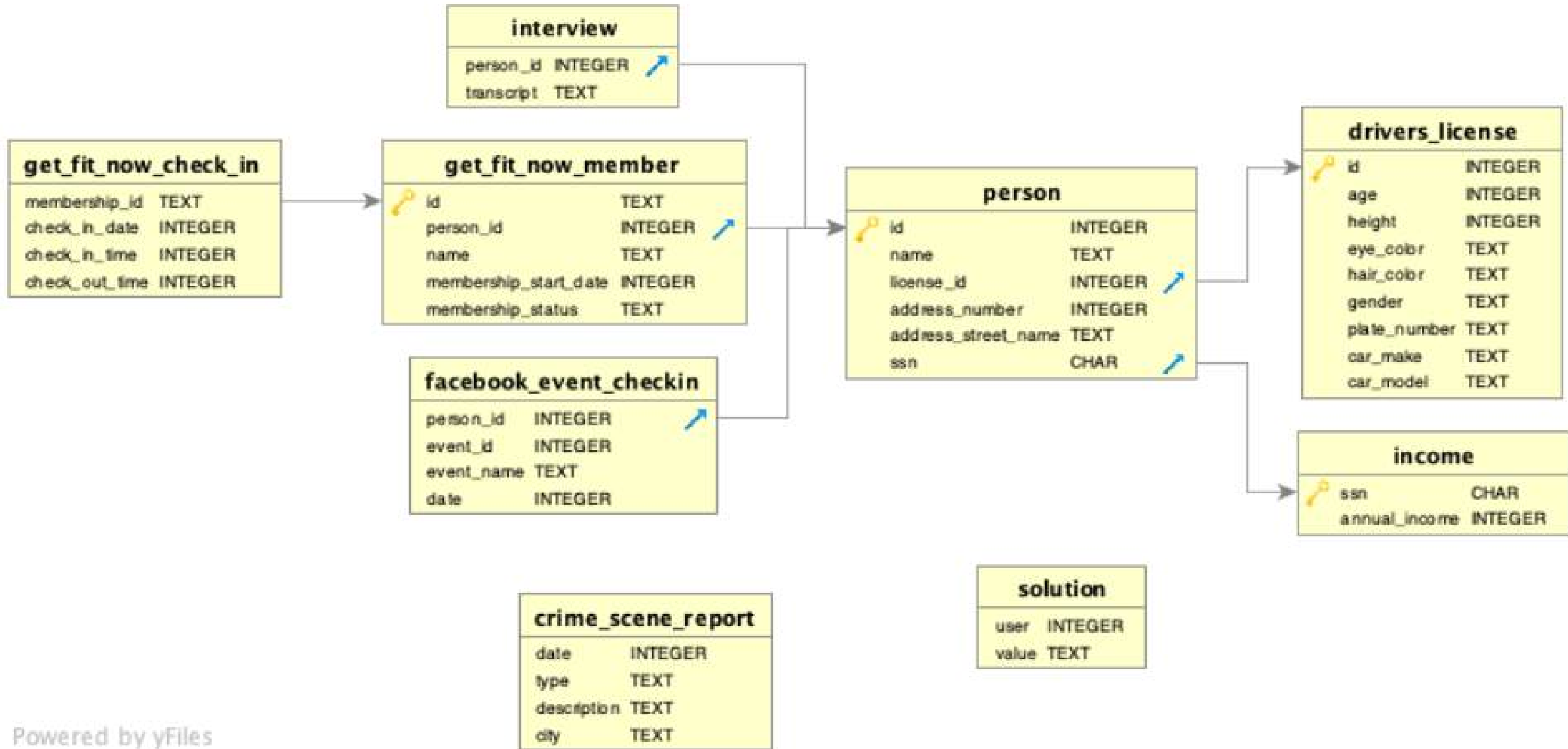
- ➔ PERSON THAT LIVES IN THE LAST HOUSE ON NORTHWESTERN DR
- ➔ ANNABEL LASTNAME LIVES SOMEWHERE ON FRANKLIN AVE



id	name	license_id	address_number	address_street_name	ssn
16371	Annabel Miller	490173	103	Franklin Ave	318771143

MAX(address_number)	id	name	license_id	address_number	address_street_name	ssn
4919	14887	Morty Schapiro	118009	4919	Northwestern Dr	1115649





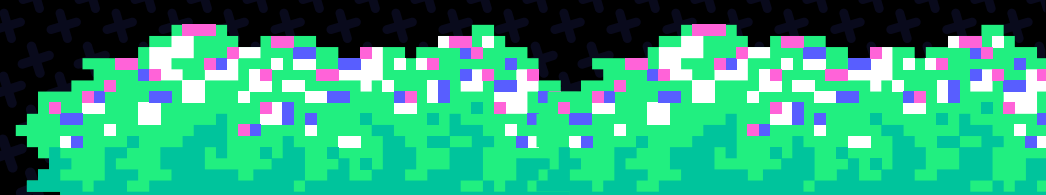
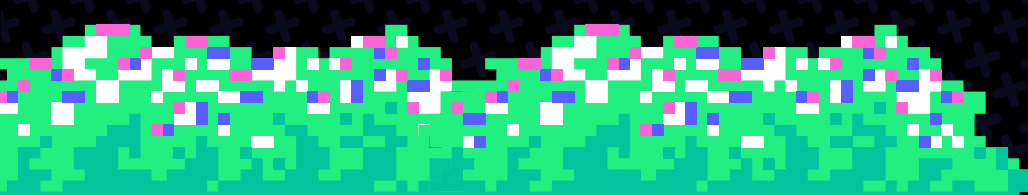


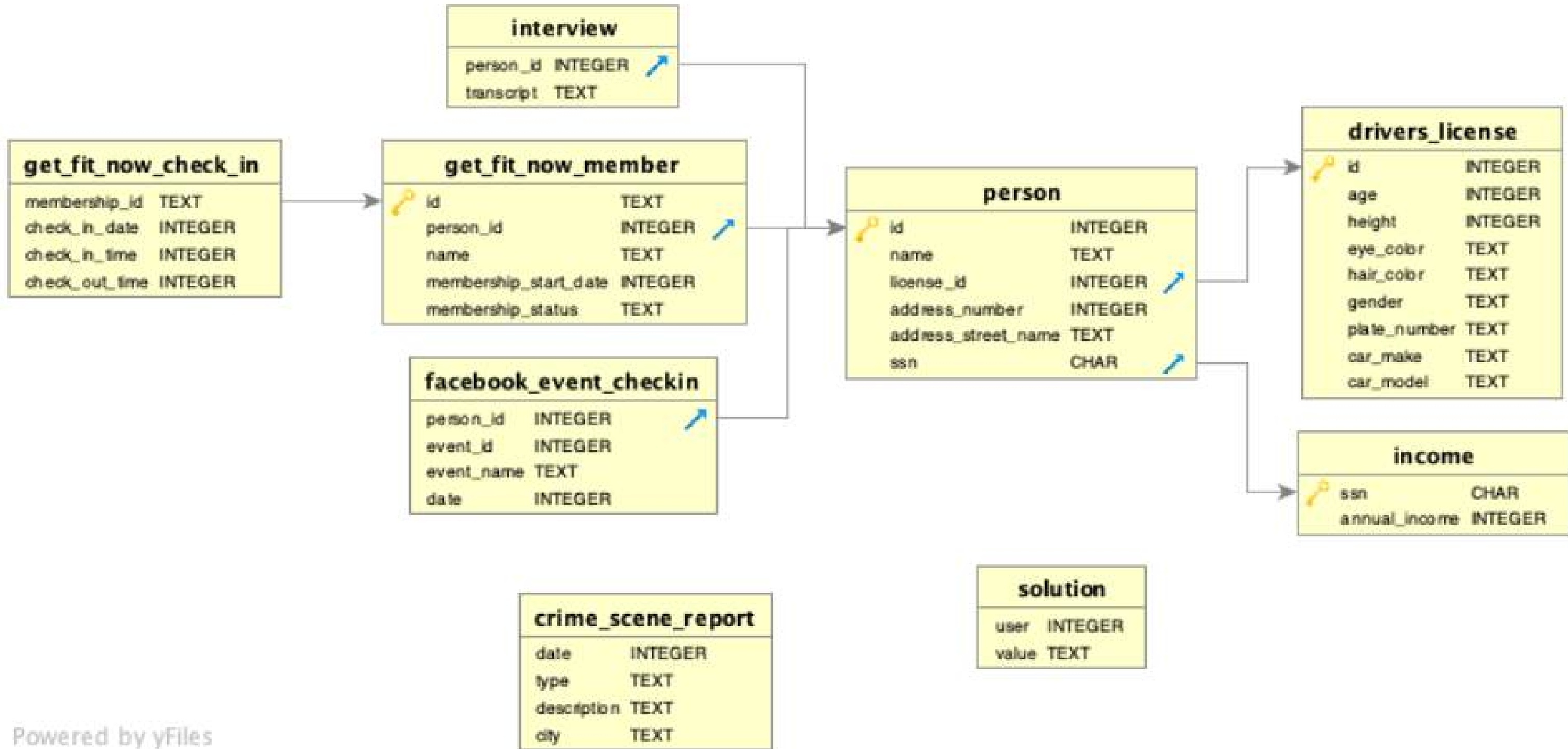
```
SELECT *  
FROM INTERVIEW  
WHERE PERSON_ID = "14887"
```

person_id	transcript
14887	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 "48Z". Only gold members have those bags. The man got into a car with a plate that included "H42W".

```
SELECT *  
FROM INTERVIEW  
WHERE PERSON_ID = "16371"
```

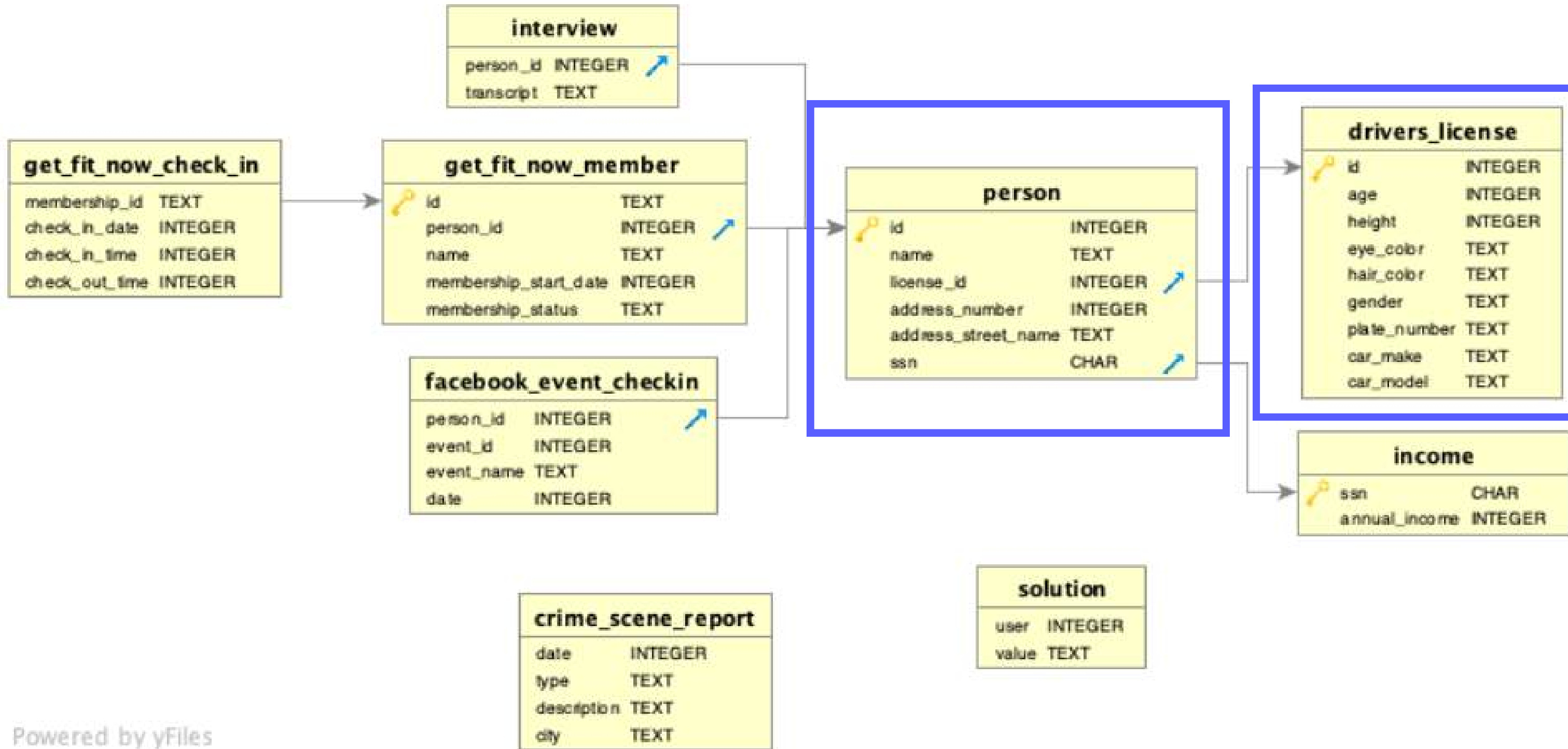
person_id	transcript
16371	I saw the murder happen, and I recognized the killer from my gym when I was working out last week on January the 9th.





```
SELECT *  
FROM GET_FIT_NOW_MEMBER  
WHERE MEMBERSHIP_STATUS = "GOLD"  
AND ID LIKE "48Z%"
```

id	person_id	name	membership_start_date	membership_status
48Z7A	28819	Joe Germuska	20160305	gold
48Z55	67318	Jeremy Bowers	20160101	gold



MENU

⚔ 01

💎 07

★ 12



JOIN

```
SELECT *  
FROM TABLE1 AS A  
JOIN TABLE2 AS B  
ON A.KEY = B.KEY  
WHERE . . . .
```

➔ USE WHEN YOU WANT COLUMNS FROM 2
[OR MORE] TABLES

➔ MUST HAVE A KEY IN COMMON
[FOREIGN KEY/PRIMARY KEY PAIR]

MENU

🗡️ 01

💎 07

★ 12



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id	person_id	name	membership_start_date	membership_status
48Z7A	28819	Joe Germuska	20160305	gold
48Z55	67318	Jeremy Bowers	20160101	gold

```

SELECT *
FROM PERSON AS P
JOIN DRIVERS_LICENSE AS DL
ON P.LICENSE_ID=DL.ID
WHERE PLATE_NUMBER LIKE "%H42W%"

```

id	name	license_id	address_number	address_street_name	ssn	id	age	height
51739	Tushar Chandra	664760	312	Phi St	137882671	664760	21	71
67318	Jeremy Bowers	423327	530	Washington Pl, Apt 3A	871539279	423327	30	70
78193	Maxine Whitely	183779	110	Fisk Rd	137882671	183779	21	65



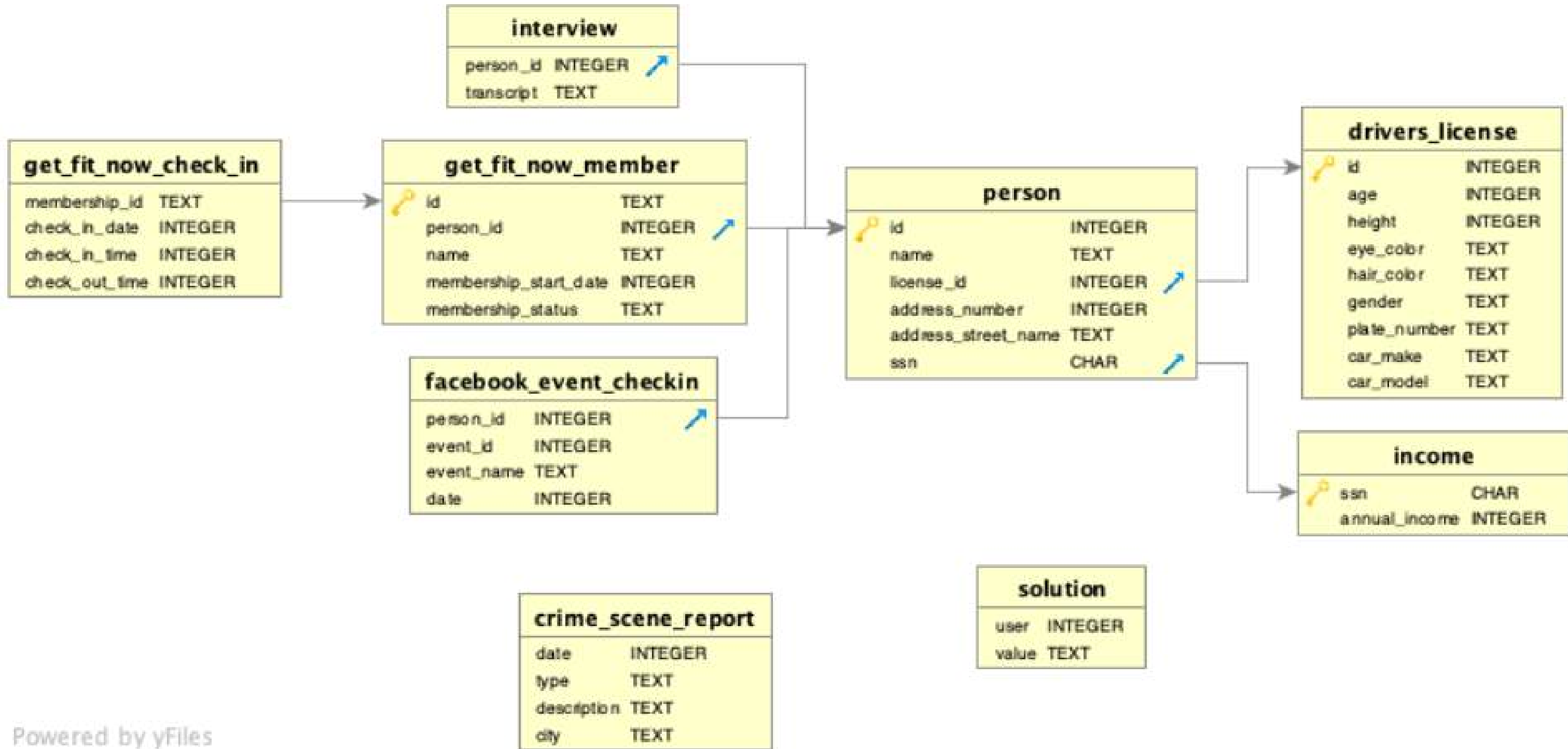
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SELECT *
FROM INTERVIEW
WHERE PERSON_ID = "14887"
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```
SELECT *
FROM INTERVIEW
WHERE PERSON_ID = "16371"
```

person_id	transcript
16371	I saw the murder happen, and I recognized the killer from my gym when I was working out last week on January the 9th.





```
SELECT *  
FROM GET_FIT_NOW_CHECK_IN  
WHERE MEMBERSHIP_ID = '48Z55'
```

membership_id	check_in_date	check_in_time	check_out_time
48Z55	20180109	1530	1700

SIGN IN



BACK TO AGENDA PAGE



THANKS FOR PLAYING

