**Module 3: Assignment: SQL Murder Mystery**

Name: Savankumar Hasmukhbhai Patel

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**Investigation Description**

**Crime Details:**

The murder occurred on January 15th, 2018, in SQL City. Our investigation commenced with the retrieval of the crime scene report from the police database, which provided crucial initial insights.

**Witness Testimonies:**

Two witnesses, Morty Schapiro and Annabel Miller, played pivotal roles in our investigation. Morty resides at the last house on Northwestern Dr., while Annabel resides on Franklin Ave. Their testimonies provided vital clues, with Morty Schapiro witnessing the murderer fleeing the scene with a gym bag from the "Get Fit Now Gym," exclusive to gold members with membership IDs starting with "48Z." Additionally, Morty recalled part of the murderer's license plate, "H42W." Annabel Miller identified the murderer as someone she worked out with on January 9th.

**Investigation Process:**

* **Transcript Analysis**: We analyzed the witness transcripts obtained from the interview table, which revealed key details pointing towards potential suspects.
* **Membership Records Review**: Further examination of the get\_fit\_now\_member table uncovered two gold members with membership IDs starting with "48Z" - Joe Germuska and Jeremy Bowers.
* **License Plate Examination**: The search extended to the person and drivers\_license tables, focusing on male individuals with license plates containing "H42W," leading us to two potential suspects - Tushar Chandra and Jeremy Bowers.
* **SQL Query Execution**: Leveraging SQL queries, we joined multiple tables including get\_fit\_now\_member, get\_fit\_now\_check\_in, person, and drivers\_license. By applying filtering conditions derived from witness testimonies, we confirmed Jeremy Bowers as the prime suspect.

Here below are the SQL command I used to find the real culprit.

SELECT \*

FROM person

JOIN drivers\_license ON person.license\_id = drivers\_license.id

JOIN get\_fit\_now\_member ON person.id = get\_fit\_now\_member.person\_id

JOIN get\_fit\_now\_check\_in ON get\_fit\_now\_member.id = get\_fit\_now\_check\_in.membership\_id

WHERE get\_fit\_now\_check\_in.check\_in\_date = '20180109'

AND get\_fit\_now\_member.id LIKE '%48Z%'

AND get\_fit\_now\_member.membership\_status = 'gold'

**Conclusion:**

Through meticulous analysis of witness testimonies and database records, we have identified Jeremy Bowers as the prime culprit in the murder case. The SQL queries executed during the investigation facilitated the process of filtering and cross-referencing data, ultimately leading to a successful resolution of the mystery.