

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

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## Investigation Description

We need to find the suspect for the murder which happened on Jan 15th, 2018 in SQL City.

We started our investigation by retrieving the crime scene report from the police database name as **crime\_scene\_report**. We found one record and read a description by which we got to know that there are two witnesses Morty Schapiro and Annabel Miller, first lives at the last house on “Northwestern Dr” and second witness name is “Annabel” who lives on “Franklin Ave.”

As we move forward with our investigation the next step is to look at the transcripts of those witnesses to catch the culprit. So we found the transcripts of those witnesses from the **interview** table. Interestingly, we got our clues that Morty Schapiro has seen the murder to ran out of the gym with a gym bag of “Get Fit Now Gym” which is only provided to the members who own the gold membership in the gym. Moreover, his membership number starts with “48Z”. Also he saw his car number plate that includes “H42W”. The second witness said that he recognized the murder because he was working out with him last week on Jan 9th.

Now, if we check in the table of **get\_fit\_now\_member**, we found that there are two members Joe Germuska and Jeremy Bowers who have gold membership and membership id starts with “48Z”. To find the right culprit we looked into other tables such as person and drivers\_license for only male and car number plate with “H42W”. Here again we found two suspects Tushar Chandra and Jeremy Bowers. However, Jeremy Bowers is supposed to be our prime suspect. To do this, we performed the SQL query which you could find in the attached file by the name of Murder\_Mystery\_Solved with this report.

At the end we have joined multiple tables such as get\_fit\_now\_member, get\_fit\_now\_check\_in , person and drivers\_license. First we have filtered out the common members from both the tables. Second, we again filtered out the common members from person and drivers\_license tables. On which we performed some conditions which we got from our two witnesses using where clause and AND logical operator. We first check the check in date of 2018-01-09 , second membership id number with “48Z” and membership status of gold. At last we confirm that **Jeremy Bowers** is our prime culprit or murderer.