**BUSINESS ANALYTICS USING R - SQL Assignment**

Anamika Jayaraj

2237024

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Submitted to:

Mr. Abdul MR



MA APPLIED ECONOMICS

Department of Economics

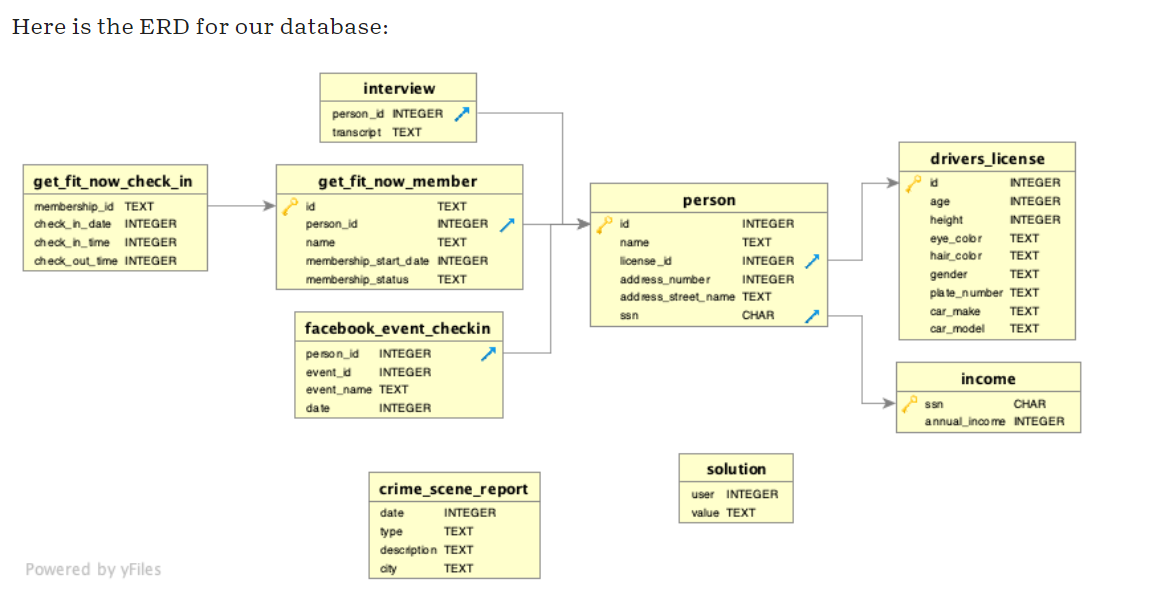
School of Social Sciences

(Submitted March 2023)

**SQL Assignment - SQL Murder Mystery**

Given to us on the website:

A crime has taken place and the detective needs your help. The detective gave you the crime scene report, but you somehow lost it. You vaguely remember that the crime was a ​murder​ that occurred sometime on ​Jan.15, 2018​ and that it took place in ​SQL City​. Start by retrieving the corresponding crime scene report from the police department’s database.

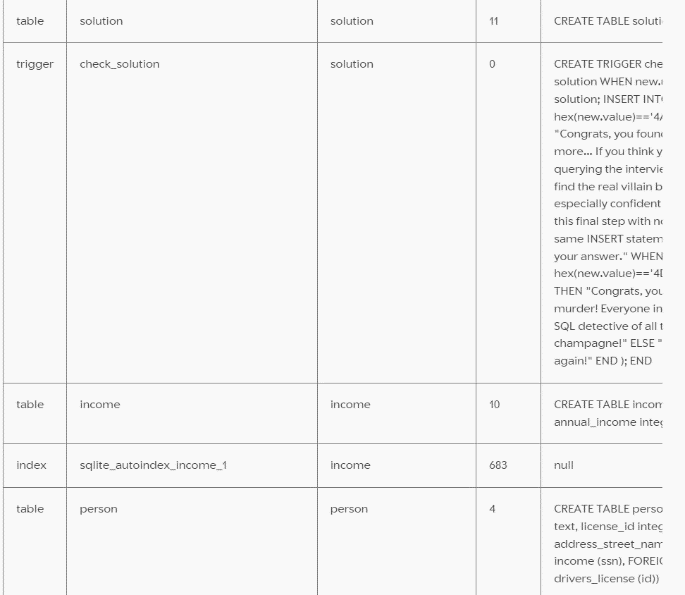
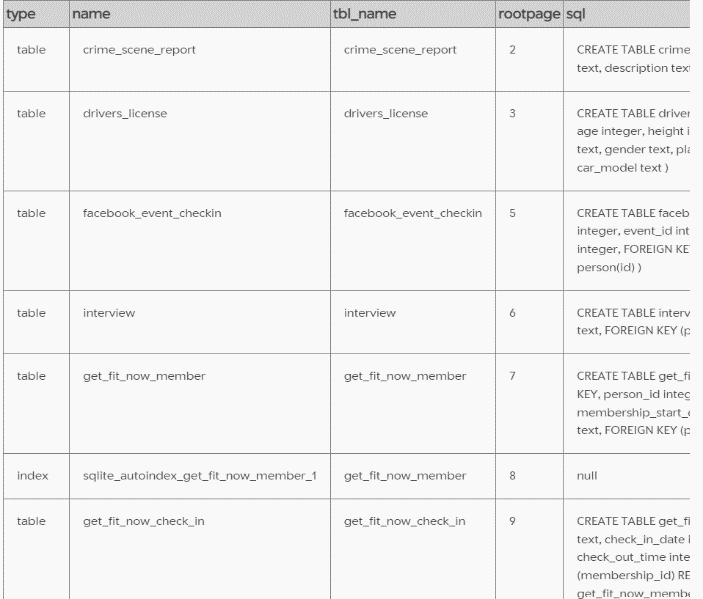


1. To view the whole table available:

SELECT \* from sqlite\_master

RUN

Results:



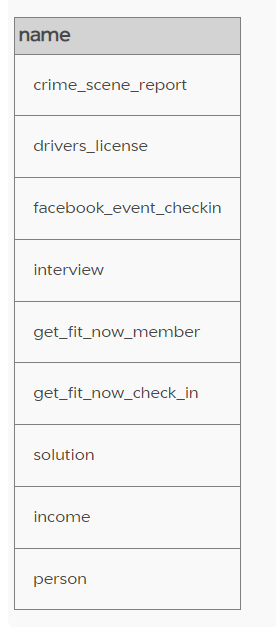
1. To view the table headings/names of the table:

SELECT name

FROM sqlite\_master

where type = 'table'

RUN



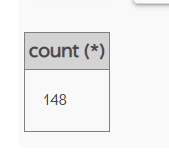
1. To see all the number of murders committed so far:

SELECT count (\*)

FROM 'crime\_scene\_report'

where type = 'murder'

RUN



1. To see the murders committed only in SQL City:

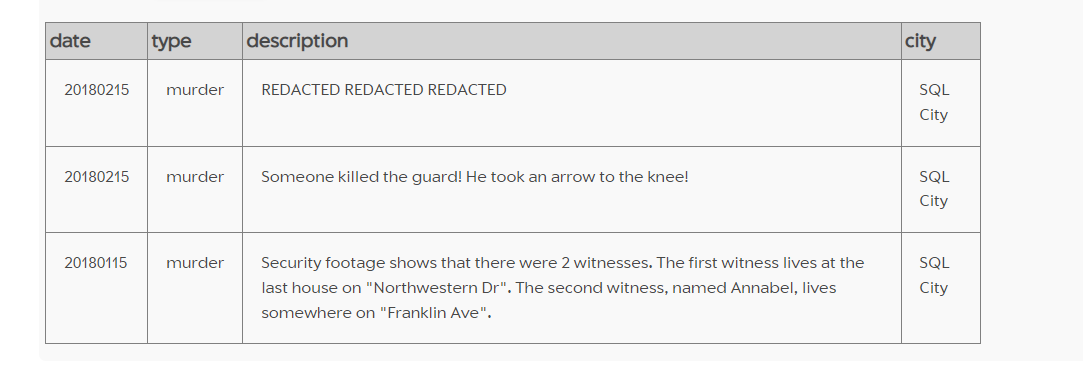
SELECT \*

FROM 'crime\_scene\_report'

where type = 'murder'

AND city = 'SQL City';

RUN



1. To find information on Annabel:

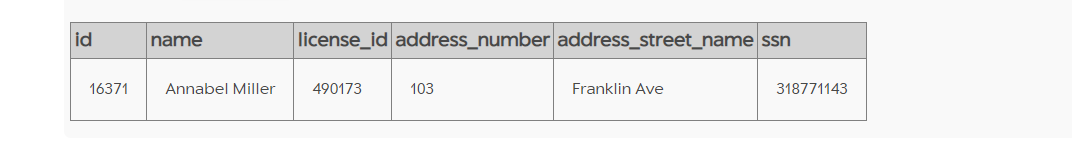
SELECT \*

FROM 'person'

WHERE address\_street\_name = "Franklin Ave"

AND name LIKE "Annabel%"

RUN



1. To find the person who lives on the last house on Northwestern Dr:

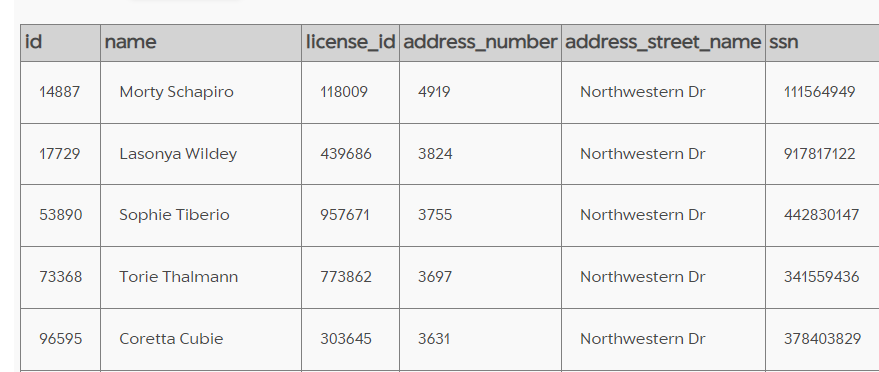
SELECT \*

FROM 'person'

WHERE address\_street\_name = "Northwestern Dr"

Order by address\_number desc

RUN



1. To find the interview transcripts of the witnesses:

SELECT person.name, interview.transcript

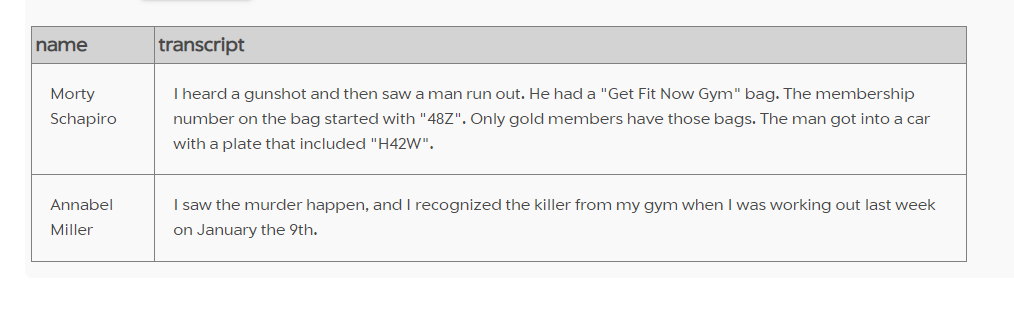
FROM person

JOIN interview

ON person.id = interview.person\_id

WHERE name = "Morty Schapiro" OR name = "Annabel Miller"

RUN



1. To find information of the people who used the Gym on 9th January 2018:

SELECT get\_fit\_now\_member.name, get\_fit\_now\_check\_in.membership\_id, get\_fit\_now\_check\_in.check\_in\_date

From get\_fit\_now\_member

JOIN get\_fit\_now\_check\_in

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

WHERE check\_in\_date = 20180109

RUN



1. To find the Gold members:

SELECT get\_fit\_now\_member.name, get\_fit\_now\_check\_in.membership\_id,

get\_fit\_now\_check\_in.check\_in\_date

From get\_fit\_now\_member

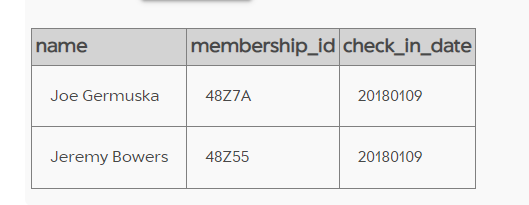
JOIN get\_fit\_now\_check\_in

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

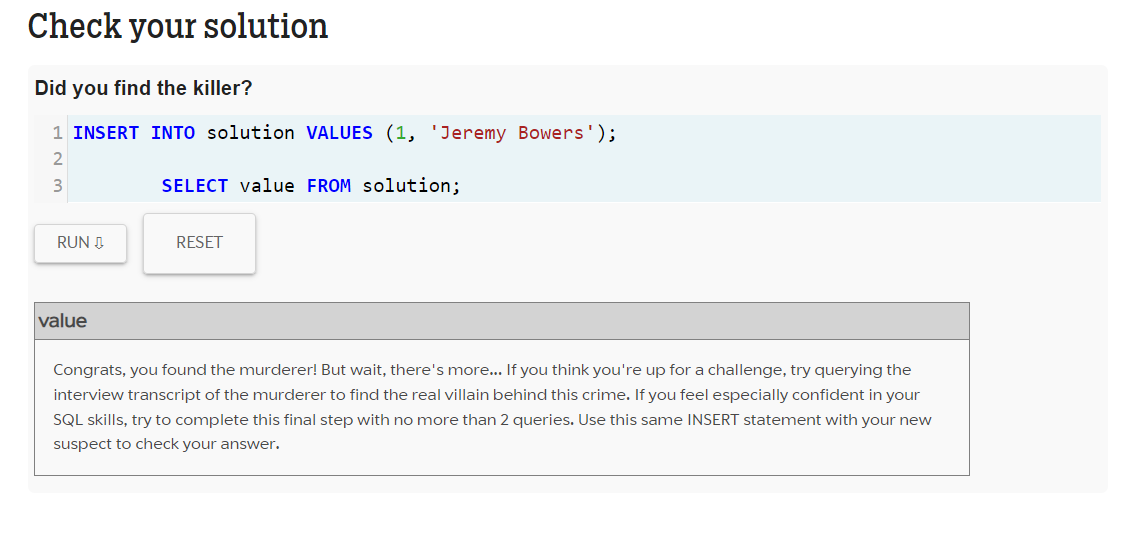
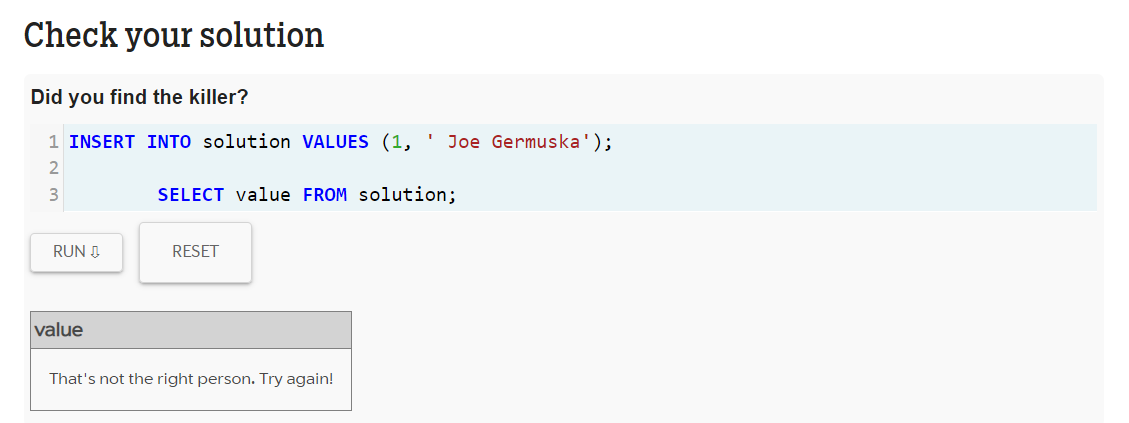
WHERE membership\_id LIKE "48Z%"

AND check\_in\_date = 20180109

RUN



1. To check solution:



1. To find the real villain:

SELECT person.name, interview.transcript

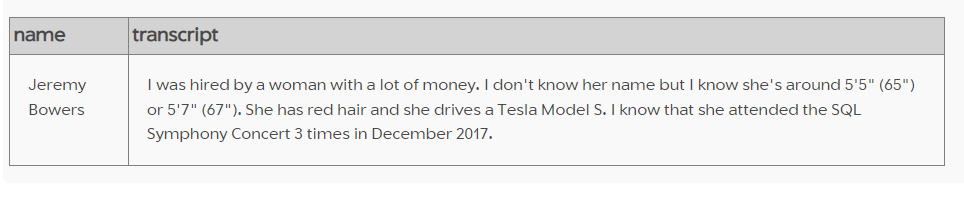
FROM person

JOIN interview

ON person.id = interview.person\_id

WHERE name = "Jeremy Bowers"

RUN



SELECT name, annual\_income as income, gender, eye\_color as eyes, hair\_color as hair,

car\_model as car

FROM income i

JOIN person p

ON i.ssn = p.ssn

JOIN drivers\_license dl

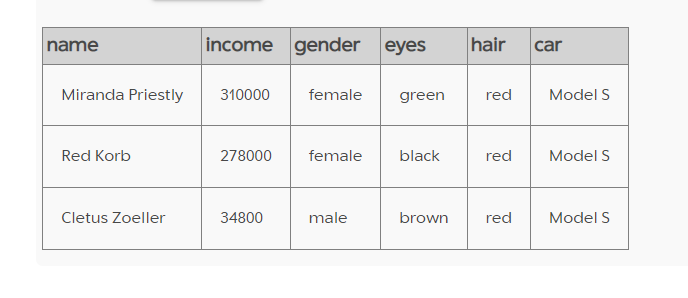
ON p.license\_id = dl.id

WHERE hair = "red"

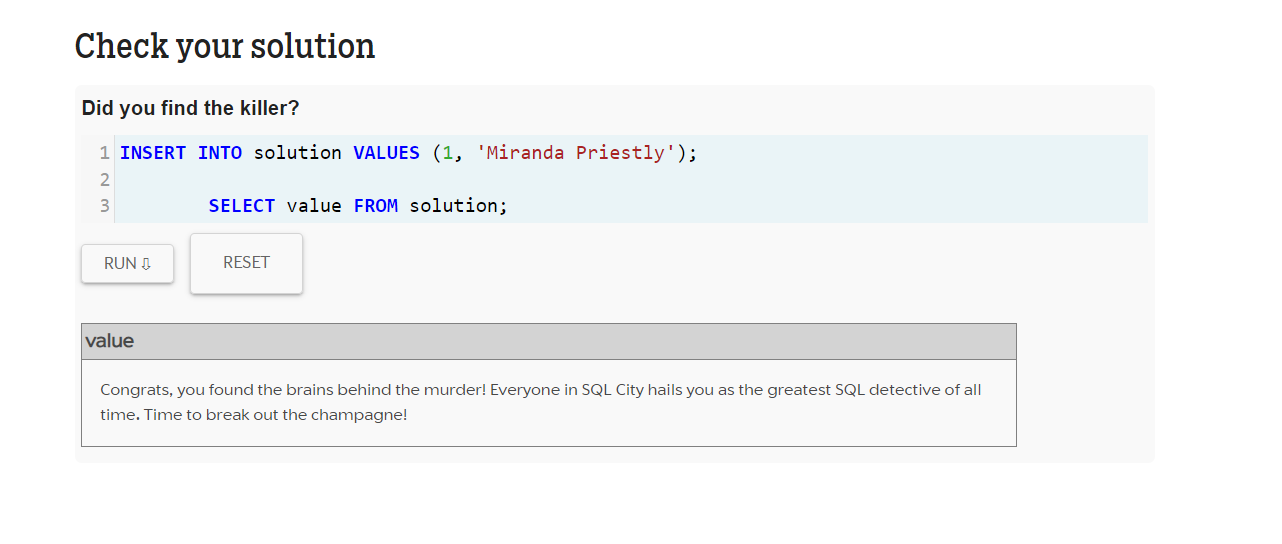
AND car = "Model S"

order by income desc

RUN



To Check Answer:



Solution: Jeremy Bowers committed the murder on the orders of Miranda Priestly.