

Quiz Q-w2 Question 3 Key: Assume the following relational schema

Vehicle(VRN, Ma, Mo, Color)

Own(VRN, SSN)

Person (SSN, Name, Addr, Phone)

Write a SQL query that returns the name and address of the owner of each vehicle with the oldest Year in the database.

Don't forget
the join
conditions

[VRN	Year...]	[VRN	SSN]	[SSN	Pname	Address...]
123	1921	123	abc	abc	Joe	Elm
234	2017	234	bcd	bcd	Jie	Poplar
.....					
		123	1921	234	bcd	bcd Jie Poplar

```
SELECT P.name, P.address
FROM Vehicle V, Own O, Person P
WHERE V.VRN = O.VRN AND O.SSN = P.SSN AND
V.Year <= ALL (SELECT V1.Year FROM Vehicle V1)
```

```
SELECT P.name, P.address
FROM Vehicle V, Own O, Person P
WHERE V.VRN = O.VRN AND O.SSN = P.SSN
AND V.Year = (SELECT V.Year
FROM Vehicle V
EXCEPT
SELECT V1.Year
FROM Vehicle V1, Vehicle V2
WHERE V1.Year > V2.Year)
```

```
SELECT P.name, P.address
FROM Vehicle V, Own O, Person P
WHERE V.VRN = O.VRN AND O.SSN = P.SSN AND
V.Year NOT IN (SELECT V1.Year
FROM Vehicle V1, Vehicle V2
WHERE V1.Year > V2.Year)
```

'=' works here if only one
Year represented in result