

Question 1 (3 points) Question 1 Unsaved
Assume the following relational schema

Vehicle(VRN, ...)
Own(VRN, SSN)
Person (SSN, ...)

The following partial table definitions for these schema do NOT list attribute types. Attribute types are not relevant to the question.

Which of the following definitions ensure that each VRN found in Own is associated with EXACTLY ONE Vehicle.

Question 1 options:

CORRECT

```
CREATE TABLE Vehicle (  
VRN, ....  
PRIMARY KEY (VRN),  
...)
```

```
CREATE TABLE Own (  
VRN, SSN, ....  
PRIMARY KEY (VRN),  
FOREIGN KEY (VRN) REFERENCES Vehicle(VRN),  
...)
```

CORRECT

```
CREATE TABLE Vehicle (  
VRN, ....  
PRIMARY KEY (VRN),  
...)
```

```
CREATE TABLE Own (  
VRN, SSN, ....  
PRIMARY KEY (VRN, SSN),  
FOREIGN KEY (VRN) REFERENCES Vehicle(VRN),  
...)
```

INCORRECT

```
CREATE TABLE Vehicle (  
VRN, ....  
PRIMARY KEY (VRN),  
CHECK (VRN IN (SELECT VRN FROM Own)), ...)
```

```
CREATE TABLE Own (  
VRN, SSN, ....  
PRIMARY KEY (VRN, SSN),  
...)
```

INCORRECT

```
CREATE TABLE Own (  
VRN, SSN, ....  
PRIMARY KEY (VRN, SSN),  
...)
```

```
CREATE TABLE Vehicle (  
VRN, ....  
PRIMARY KEY (VRN),  
FOREIGN KEY (VRN) REFERENCES Own(VRN))
```

Question 2 (3 points) Question 2 Unsaved
Assume the following relational schema

```
Vehicle(VRN, ...)  
Own(VRN, SSN)  
Person (SSN, ...)
```

The following partial table definitions for these schema do NOT list attribute types. Attribute types are not relevant to the question.

Which of the following definitions ensure that each VRN found in Vehicle is associated with AT LEAST ONE tuple of Own

Question 2 options:

INCORRECT

```
CREATE TABLE Own (  
VRN, SSN, ....  
PRIMARY KEY (VRN, SSN),  
...)
```

```
CREATE TABLE Vehicle (  
VRN, ....  
PRIMARY KEY (VRN),  
FOREIGN KEY (VRN) REFERENCES Own(VRN))
```

CORRECT

```
CREATE TABLE Vehicle (  
VRN, ....  
PRIMARY KEY (VRN),  
CHECK (VRN IN (SELECT VRN FROM Own)), ...)
```

```
CREATE TABLE Own (  
VRN, SSN, ....  
PRIMARY KEY (VRN, SSN),  
...)
```

INCORRECT

```
CREATE TABLE Vehicle (  
VRN, ....  
PRIMARY KEY (VRN),  
FOREIGN KEY (VRN) REFERENCES Own (VRN), ...)
```

```
CREATE TABLE Own (  
VRN, SSN, ....  
PRIMARY KEY (VRN, SSN),  
...)
```