First normal form (1NF)

As per the rule of first normal form, an attribute (column) of a table cannot hold multiple values. It should hold only atomic values. Class1, Class2, Class3, Class4, Class5 are the multiple values for each student.

CAR:

Car license # (PK)	**VIN# (PK)**	Car color	Car make	Car Model

STUDENT:

Student ID (PK)	First Name	Last Name	Address1	City	State	Zip	Term	GPA	Class

Second normal form (2NF)

A table is said to be in 2NF if both the following conditions hold:

- Table is in 1NF (First normal form)
- No non-prime attribute is dependent on the proper subset of any candidate key of table.

CAR:

Car license # (PK)	**VIN# (PK)**	Car color	Car make	Car Model

STUDENT:

Student ID (PK)	First Name	Last Name	Address1	City	State	Zip

CLASS:

ClassID (PK)	GPA	**Student ID (FK)**	Term	Class

Third Normal form (3NF)

All non -key fields depend only on primary key

CAR:

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Car license # (PK)	**VIN# (PK)**	Car color	Car make	Car Model

STUDENT:

Student ID (PK)	First Name	Last Name

ADDRESS:

Student ID (FK)	**Address ID (PK)**	Address	City	State	Zip

CLASS:

ClassID (PK)	GPA	**Student ID (FK)**	Class	Term

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