Database Assignment s5014219 Damien Robinson

Section 1

1. A car has an engine size, transmission, make, model and Vehicle Identification Number. The Vehicle I identification Number of a car is unique.
2. A car must be made by a factory.
3. A factory has a name and a city. The Name of a factory is unique.
4. A car may be sold by a dealer for a price.
5. A dealer has an address, name, email and phone. The address and name of a dealer is unique.
6. A dealer can sponsor a car ad for a cost.
7. A car Ad has a title that is determined by the agency.

Section 2

Factory (Name, City)
Primary key (PK): {Name}

Car(VIN, EngSize, Trans, Make, Model)
PK: {VIN}

Dealer(Address, Name, E-Mail)
PK: {Address, Name}

Car_Ad(Title, Name)
PK: {Title},
Foreign key (FK): Name is Name in Agency

Agency(Name, Address, Phone)
PK: {Name}

Hybrid(VIN, EngSize, Trans, Make, Model)
PK: {VIN}

Dealer Phone(Address, Name, Phone)
PK: {Address, Name, Phone},
FK: Address is Address in Dealer, Name is Name in Dealer

Sold_By(VIN, Address, Name, Price)
PK: {VIN, Address, Name}
FK: VIN is VIN in Car, Address is Address in Dealer, Name is Name in Dealer

Sponsors(Title, Address, Name, Cost)
PK: {Title, Address, Name}
FK: Title is Title in Car_Ad, Address is Address in Dealer, Name is Name in Dealer

Features_in(Title, VIN, Year)
PK: {Title, VIN}
FK: Title is Title in Car_Ad, VIN is VIN in Car

Section 3