Reference:

Pages 16 to 19

Venn Diagram:
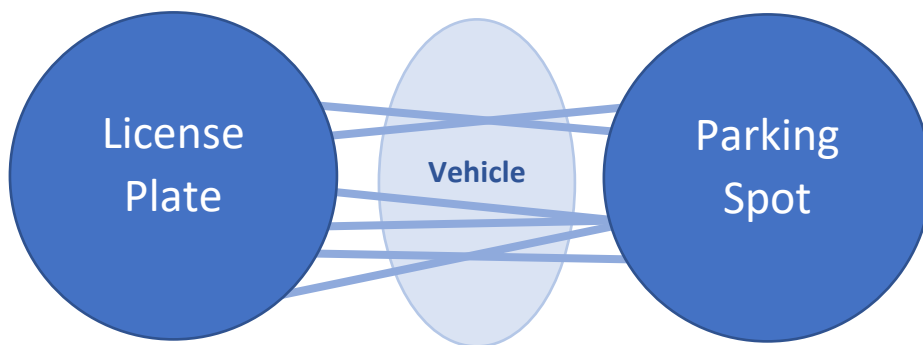
Mappings:

License Plate → Parking Spot

It is a function because there's at most 1 parking spot per license plate, it's also total because every single license plate has a parking spot assigned to it. The function is also bijective (one-to-one AND onto). It is one-to-one because there's at most 1 license plate per parking spot and onto because every license plate in the database has a parking spot.

This function could be represented as a set of vehicles, because order doesn't matter and we should never have a duplicate vehicle (as every vehicle only exists once).