Answer for G51DBS cw1

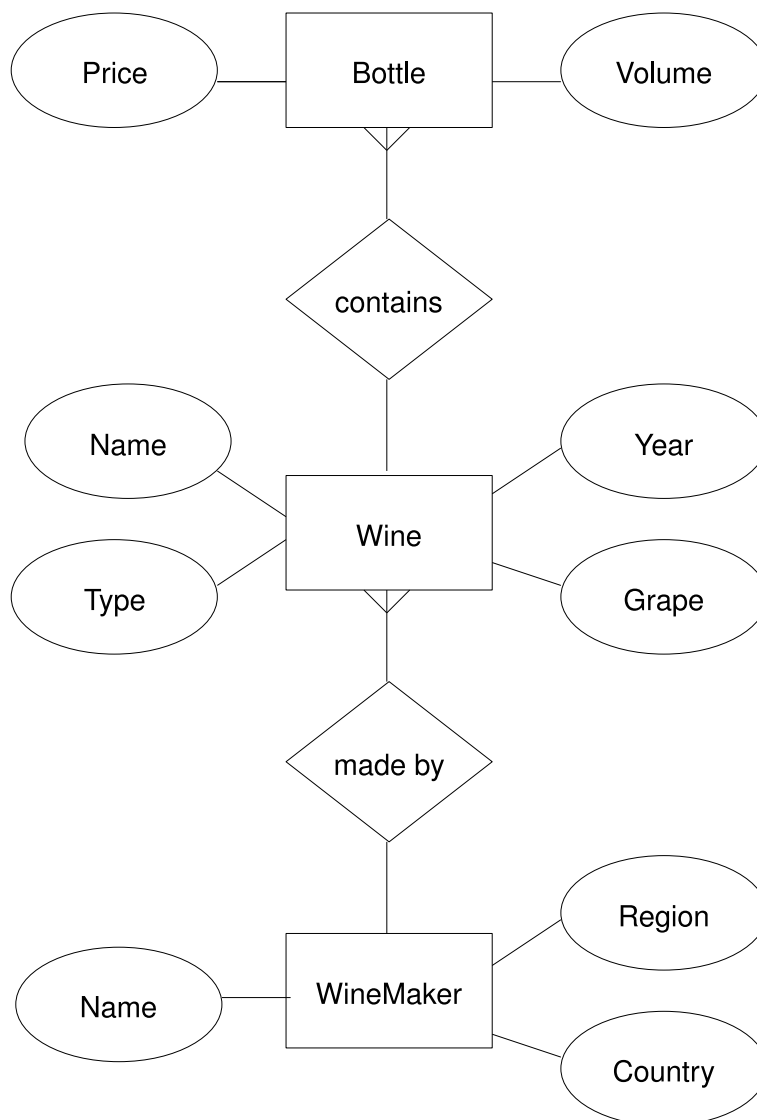(1) Entities: Bottle, Wine, Wine-maker.
Attributes of Bottle: volume, price.
Attributes of Wine: Name, Type, Year, Grape.
Attributes of Wine-maker: Name, Region, Country. (the latter two can be entities).
Relationships (cardinality ratios): Wine is contained in a bottle (one-to-many).
Wine-maker makes wines (one-to-many).

Price — Bottle — Volume

contains

Name — Year

Type — Wine — Grape

made by

Region

Name — WineMaker

Country

(2) Tables:
Wine(wID, Name, Type, Year, Grape, pID) where pID is producer's (wine-makers) ID. Both wID and pID are optional - we can use other candidate keys instead, see (3).

Bottle(bID, wID, Volume, Price)
WineMaker(pID, Name, Region, Country).
(3) Wine: wID; {Name,Year,pID}
Bottle: bID (note that to identify *individual bottles* we need something in addition to wine, price and volume: there are lots of different individual bottles with the same contents and price. If we don't want to distiguish bottles, just keep track of stock, we need a number-in-stock field for each kind of bottle).
WineMaker: pID; Name
(4) pID in Wine is a foreign key for WineMaker. wID in Bottle is a foreign key for Wine.