**Problem**

For this particular assignment, the data of different types of wine sales in the 20th century is to be analysed. Both of these data are from the same company but of different wines. As an analyst in the ABC Estate Wines, you are tasked to analyse and forecast Wine Sales in the 20th century.

**Sparkling.csv**

1. Data definition
2. Data description
3. Hist plot
4. Box plot
5. Uni variate analysis
6. Bi variate analysis
7. Train test split
8. Simple exponential smoothening – RMSE analysis.
9. Double exponential smoothening (Holt’s method) – RMSE analysis.
10. Triple exponential smoothening (Holt’s winter model) – RMSE analysis.
11. Linear regression model – RMSE
12. Naïve model – RMSE
13. Simple average model – RMSE
14. Moving average model – RMSE
15. Stationarity check with AdFuller
16. Make the data stationary with alpha 0.05
17. Build ARIMA model with lowest AIC score – test this model on test data using RMSE
18. Build SARIMA model with lowest AIC score – test this model on test data using RMSE
19. Build table with all the above models with RMSE scores
20. Use optimal model with lowest RMSE to predict 12 months into future with a plot and confidence intervals
21. Business recommendations