**DSBA/MBAD 6211 Assignment 4**

Due Date: 11:59pm @ 12/02/2020

**Data description**

Source: *Data Mining for Business Analytics* (R Edition 2017), by Galit Shmueli, Peter Bruce, Inbal Yahav, Nitin Patel, Kenneth Lichtendahl. (ISBN-10: 1118879368)

The dataset records Australian red wine sales data between 1980 and 1994.

* Please use the last 2 years of data as the validation dataset (hold-out sample).
* Please run different forecasting models and compare their model performance.
  + Linear trend
  + Seasonality
  + Linear trend and seasonality
  + Simple exponential smoothing model

**Variable and model naming requirements:**

* + Please include your ***name initials*** to the data frame names as well as model names in your R coding.
  + Please instance, in my coding, I would name the data frames as ***dfKZ, dfKZ.train***, and ***dfKZ.valid.*** I would also name the models as ***train.lmKZ***, etc.

**Questions**

1. Please show the plot of the entire dataset.

![Chart

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RD0RXhpZgAATU0AKgAAAAgABAE7AAIAAAAOAAAISodpAAQAAAABAAAIWJydAAEAAAAcAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJ5YW4gQ2FycmllcmUAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzk1AACSkgACAAAAAzk1AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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U2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+kaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACisWfxj4atbiSC58QaZDNGxV45LtFZSOoIJ4NR/8ACc+FP+hl0n/wNj/xoA3qKwf+E58Kf9DLpP8A4Gx/40f8Jz4U/wChl0n/AMDY/wDGgDeorB/4Tnwp/wBDLpP/AIGx/wCNH/Cc+FP+hl0n/wADY/8AGgDeorB/4Tnwp/0Muk/+Bsf+NH/Cc+FP+hl0n/wNj/xoA3qKwf8AhOfCn/Qy6T/4Gx/40f8ACc+FP+hl0n/wNj/xoA3qKwf+E58Kf9DLpP8A4Gx/40f8Jz4U/wChl0n/AMDY/wDGgDeorB/4Tnwp/wBDLpP/AIGx/wCNH/Cc+FP+hl0n/wADY/8AGgDeorB/4Tnwp/0Muk/+Bsf+NH/Cc+FP+hl0n/wNj/xoA3qKwf8AhOfCn/Qy6T/4Gx/40f8ACc+FP+hl0n/wNj/xoA3qKwf+E58Kf9DLpP8A4Gx/40f8Jz4U/wChl0n/AMDY/wDGgDeorB/4Tnwp/wBDLpP/AIGx/wCNH/Cc+FP+hl0n/wADY/8AGgDeorB/4Tnwp/0Muk/+Bsf+NH/Cc+FP+hl0n/wNj/xoA3qKwf8AhOfCn/Qy6T/4Gx/40f8ACc+FP+hl0n/wNj/xoA3qKwf+E58Kf9DLpP8A4Gx/40f8Jz4U/wChl0n/AMDY/wDGgDeorB/4Tnwp/wBDLpP/AIGx/wCNH/Cc+FP+hl0n/wADY/8AGgDeorB/4Tnwp/0Muk/+Bsf+NH/Cc+FP+hl0n/wNj/xoA3qKwf8AhOfCn/Qy6T/4Gx/40f8ACc+FP+hl0n/wNj/xoA3qKwf+E58Kf9DLpP8A4Gx/40f8Jz4U/wChl0n/AMDY/wDGgDeorB/4Tnwp/wBDLpP/AIGx/wCNH/Cc+FP+hl0n/wADY/8AGgDeorB/4Tnwp/0Muk/+Bsf+NH/Cc+FP+hl0n/wNj/xoA3qKwf8AhOfCn/Qy6T/4Gx/40f8ACc+FP+hl0n/wNj/xoA3qKwf+E58Kf9DLpP8A4Gx/40f8Jz4U/wChl0n/AMDY/wDGgDeorB/4Tnwp/wBDLpP/AIGx/wCNH/Cc+FP+hl0n/wADY/8AGgDeorB/4Tnwp/0Muk/+Bsf+NH/Cc+FP+hl0n/wNj/xoA3qKwf8AhOfCn/Qy6T/4Gx/40f8ACc+FP+hl0n/wNj/xoA3qKwf+E58Kf9DLpP8A4Gx/41f03XdJ1nzP7I1O0vvKxv8As06ybc9M4PFAF+iiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA85+Heg6PqNn4gn1DSrG6m/t+9HmT2yO2N/TJGa6//hE/Dn/QA0v/AMAo/wDCuf8Ahf8A8gzX/wDsYL3/ANDFdvQBkf8ACJ+HP+gBpf8A4BR/4Uf8In4c/wCgBpf/AIBR/wCFa9FAGR/wifhz/oAaX/4BR/4Uf8In4c/6AGl/+AUf+Fa9FAGR/wAIn4c/6AGl/wDgFH/hR/wifhz/AKAGl/8AgFH/AIVr0UAZH/CJ+HP+gBpf/gFH/hR/wifhz/oAaX/4BR/4Vr0UAZH/AAifhz/oAaX/AOAUf+FH/CJ+HP8AoAaX/wCAUf8AhWvRQBkf8In4c/6AGl/+AUf+FH/CJ+HP+gBpf/gFH/hWvRQBkf8ACJ+HP+gBpf8A4BR/4Uf8In4c/wCgBpf/AIBR/wCFa9FAGR/wifhz/oAaX/4BR/4Uf8In4c/6AGl/+AUf+Fa9FAGR/wAIn4c/6AGl/wDgFH/hR/wifhz/AKAGl/8AgFH/AIVr0UAZH/CJ+HP+gBpf/gFH/hR/wifhz/oAaX/4BR/4Vr0UAZH/AAifhz/oAaX/AOAUf+FH/CJ+HP8AoAaX/wCAUf8AhWvRQBkf8In4c/6AGl/+AUf+FH/CJ+HP+gBpf/gFH/hWvRQBkf8ACJ+HP+gBpf8A4BR/4Uf8In4c/wCgBpf/AIBR/wCFa9FAGR/wifhz/oAaX/4BR/4Uf8In4c/6AGl/+AUf+Fa9FAGR/wAIn4c/6AGl/wDgFH/hR/wifhz/AKAGl/8AgFH/AIVr0UAZH/CJ+HP+gBpf/gFH/hR/wifhz/oAaX/4BR/4Vr0UAZH/AAifhz/oAaX/AOAUf+FH/CJ+HP8AoAaX/wCAUf8AhWvRQBkf8In4c/6AGl/+AUf+FH/CJ+HP+gBpf/gFH/hWvRQBkf8ACJ+HP+gBpf8A4BR/4Uf8In4c/wCgBpf/AIBR/wCFa9FAGR/wifhz/oAaX/4BR/4Uf8In4c/6AGl/+AUf+Fa9FAGR/wAIn4c/6AGl/wDgFH/hR/wifhz/AKAGl/8AgFH/AIVr0UAZH/CJ+HP+gBpf/gFH/hR/wifhz/oAaX/4BR/4Vr0UAZH/AAifhz/oAaX/AOAUf+FH/CJ+HP8AoAaX/wCAUf8AhWvRQBkDwn4cPTQNLP8A25x/4Uf8In4c/wCgBpf/AIBR/wCFYPwxd303Xt7M2NfvQMnOBvHFdrQBkf8ACJ+HP+gBpf8A4BR/4VzHhixtNO+MHiqDT7WG1h+wWR8uCMIuf3nOBxXfVxGif8lo8Vf9g+x/9qUAdvRRRQAUUUUAFFFFABRRRQAUUVDeXlvp9pJdXsyQQRjLyOcBRSbSV2G5NRXFr8SrW6zJpOga5qlrnCXdlaCSKT3Vt3NSW/xH077bFb6xpuqaGJjtil1O3ESSN/dByef8Ka10DZXOwooBDKCDkHkGigDD1/U9fsJoV0Hw+urIykyO16kGw9hhhzWT/wAJF44/6EWP/wAG8X+FdlRQBwXwilnm8PazJeW/2ad9dvDJCHD+W28ZG4dcetd7XEfC/wD5Bmv/APYwXv8A6GK7egAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAoooBB6c0AFFFFAHEfC/8A5Bmv/wDYwXv/AKGK7euI+F//ACDNf/7GC9/9DFdvQAVxGif8lo8Vf9g+x/8AaldvXEaJ/wAlo8Vf9g+x/wDalAHb0UUUAFFFFABRRRQAUUUUAFc34/0m71rwVe2WnBmuH2sqqeWwwJH44xXSVleJddh8NaBcapcRmVIQMIGxuJIAGfqaipZxdy4XUlY5LQviT4b0rRbaw1Uy6XeWyCOa1NrI3lsBgjKqQfzrM8a+IrLx9on9i+EoZtRu5XBMghaP7OP7+XA/T1rTt0+JWt26ajZ6vo+kW9wN8dnPYmd41PIBcOAT+FQ3+s+N/BEY1PxTe6drWmZ2SrZ2ptnhz/Hks2R7e9au7neejv8Ajf59TJaR9za34HoVpG0NnDG5yyoAT74qamQyrNAkqfddQw/Gn0nuONrKwUUUUhnEfC//AJBmv/8AYwXv/oYrt64j4X/8gzX/APsYL3/0MV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1. Please provide results for each model estimation

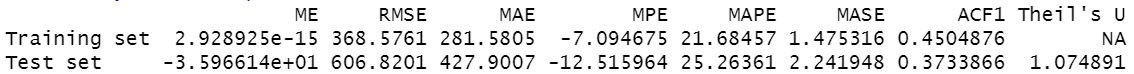
**Linear Model:**

![A close up of text on a white background

Description automatically 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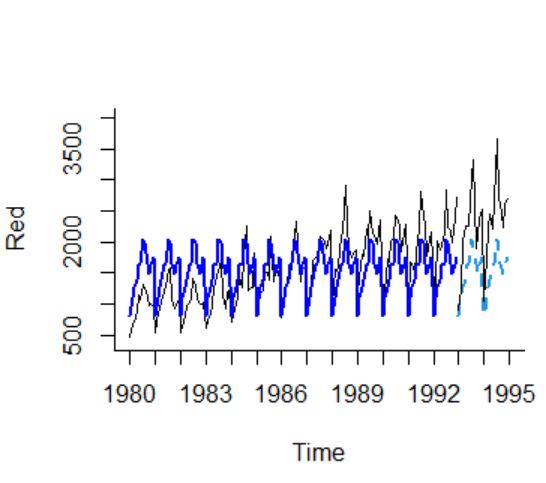
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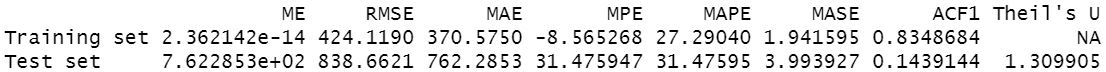


**Seasonal Model:**

![Table

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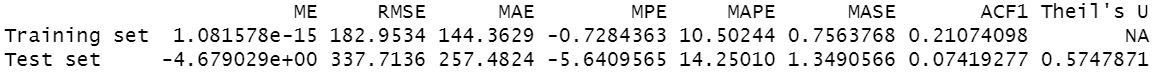
**Linear and Seasonal Model:**

![Table

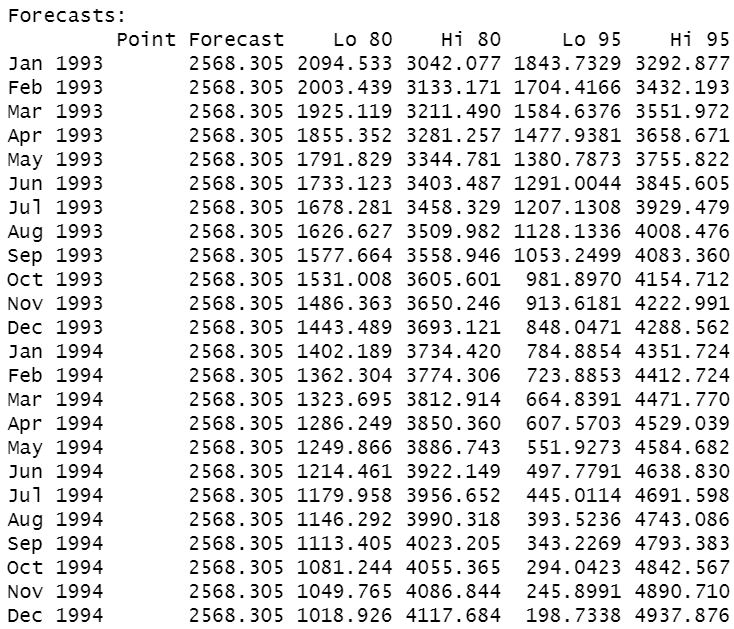
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![Chart

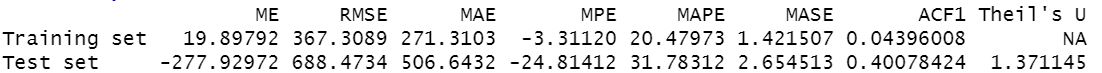
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**Simple Exponential Smoothing Model:**![Text, letter

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user interface, chart

Description automatically 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Cen/jooApQf69PrTD1NaKwkMDvz/wEUnkH/np/46KAM6itHyD/AM9P/HRR5B/56f8AjooAzqK0fIP/AD0/8dFHkH/np/46KAM6itHyD/z0/wDHRR5B/wCen/jooAzqUda0PIP/AD0/8dFNkiZI2YPnaCfuigCpP/r2+tR1H4Y1OXxD4ZstVmVYXuULGNBkLhiOp+lavkH/AJ6f+OigDOorR8g/89P/AB0UeQf+en/jooAzqK0fIP8Az0/8dFHkH/np/wCOigDOorR8g/8APT/x0UeQf+en/jooAzqkP/HsP9/+lXfIP/PT/wAdFL5J2439+u0UAZtFaPkH/np/46KPIP8Az0/8dFAGdRWj5B/56f8Ajoo8g/8APT/x0UAZ1FaPkH/np/46KPIP/PT/AMdFAGdRWj5B/wCen/joo8g/89P/AB0UAUo/9XJ9B/Oo6g1fVZdM1rRrBEWRdTneJ3IwUCoWyPXpitjyD/z0/wDHRQBnjrWsOgqHyD/z0/8AHRU1AFaf/j6i/wBxv5rRRP8A8fUX+4381opiLNFFFIYUUUUAFFFFABSMquhVwGUjBB70tFAGbpvh3SdInebTbGK3kkGGZM81pUUUAFFUtWlv4rB20m3jnuf4VkfaB75rlPCt/qqadr76nc/aLq3uHAOPlX5AcAelK+/kO2x3FV7GwtdNtvs9jAsEW5n2J0yxyT+JJNeeLLPpulaX4hTV55rq8mjWWF5SY2DkZAXoMZqzrVzHc6vff23qtzpghRTZJFMYxJlQSf8Aa5pvQFqehUVw0l/qWo6RoWn3c0ltPqDMLhkyjhQCRg9ugrQ8OzTaf4iv9CknluIYESWJ5nLv82cgk9egp21a9fwJvpc6miiikMKKKKACiiigAooooAKKKKACiiigAoorhvHl54hghDWZS0sY5Y8yo+Xly4GMfw0dUu40rnc1XurC1vnt2u4Fla2lE0Jb+BxwGHvya5vxG817rOlaSbyW0t7lXeR4nKOxUAgBh061mWupahY2fiDTbC4kvX0/H2eRyZH5GSCe/Wl0+/8ADQS1t8vxO/orz3RrmO38RWK6Jq1zqSzqftqSzGURDBOf9nnAqgdRstR1zUW1K415ViuGiVrJnEKAE8kjgVXWwdLnqNFQWZiNlCYJGkj2Da7NkkY7mp6GJbBRRRSGFFFFABRRRQAUUUUAFFFFABRRWdrUupx2B/saCOa4PH7x9oUevv8ASk3ZXGldmjSEBlIIyCMGuF8P6nqkHgnWbm8ufPvbaecCQjgFfQentVZWl0N9F1KHVbi5k1GVUmimmLoQwydoPTGMVVtben4i6X9fwO9sbG202yjtLGFYLeIYSNOijOanrz+4jl1i61q9uNWuLV9OkKwxQzFFUABvmHfJOKkj1W68S22hWUly8AvoWluHt22OdoB4I6ZyaS12/q//AAwPQ7yiuY8LXM8Gpano080k62Tr5UkjbmKsueT36109Hmg62YUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUVwvi+88Qw6hZFClpp4vYkzG+XmBcDn0H+NXNeEup+J7LSJL2a0tmt2mbyJCjuwIGNw7c0LVL+vMb0Z01xYWt1c21xcQLJLasXgc9YyRgkfgcVYrzlNdvbPw9q1nDeGX7DdLbx3Tnc2wlcknufmPNXbXd4b8VafZwalcXkN/EzSrcTGQgqBgjPQHNCs/68rieh3NFeWWOoWGpXtzPqdzr6H7QyCS3d1gQBiOSOB0r1CEqYEMbblxwxOc0L4bg9JWIZ/wDj6i/3G/mtFE//AB9Rf7jfzWimIs0UUUhhRRRQAUUUUAFFFFABRRRQAHoa5jw7p95aT6809sV8+6Z4RJ0kGxR+WRXT0UB0seaw6BJf6hDCnh+50+UXCyzzyOTD8pyQgJ4z9BVy8s7vTda1FrjQ7jWI7oL9nkjUOIsKBjk8c+ld9RR0sO+tzhF0XVtM0HRboQteXenOWkhU5dgwIwM+ma1fD1pd3WvX2uX1rLZ/aESKOCYYdQueTj6101FO+t/61JtpYKKKKQwooooAKKKKACiiigAooooAKKKKACue8bWNzqHh4wWULTS+dG21euA4J/Suhoo6oadmcx4ttWns7VZNHk1KBT+8W3YrMh4xtII/HmsW28MX0vh/V5LS3ksZbwDyYJGO9QBj5j1ycV6DRS7iWlvI4GytL3UNZ0xrXQ59IWzJaeSVAgl+UjHB5555rRvNS1HyrzTD4cuN05ZFntkHlENwGY5z9eK62im9dGC01KWkWbWGkwWznLIoz9au0UU27u4krKwUUVWu9SsbDb9uvLe23fd86VUz+ZpDLNFZo8R6ITgazp+f+vpP8auRXltPJshuIpH2htqOCcHofpQBNRRRQAUUUUAFFFFABSMMowHpS0UAcr4c0+9stF1aOa0Hmy3c7xRTfdkBPGfY1hafoDXmr2nlaFdaaIJ/OnkuHLI2M8JknAOc9q9HoprR3B6pr+tTgfEGnPPrVxv8OXM8rjZDc2zkRkHjMgyOevY9qsz6NfaDDot5Z2jXr2ERinhhHzNuABK/TFdrRSWi0B6vU5vwxY3RvtR1e+ge2e+dSkMgwyBRjn8q6SiijyDzCiiigAooooAKKKKACiiigAooooAKKKKAOd8Y2F1f2ditnC0zR3sMjBeyhwSareL7U3DWvnaLNqUCjk2rlZkbt0I4/GuropdLedx31OK0rRLmz8OajKNMVpLyTzFspScheBgn+9wTVXw/oJk1u3u7fR7rTYLWNsreuWaRmHGMk8DFd/RVdbi6WONu7/UrqxudHPhy4hkmLIJ4UHkDJ4YnOfrxXVWFsbSwhgJ3GNcE1YopB1K0/wDx9Rf7jfzWiif/AI+ov9xv5rRTEWaKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACsvWPDWi6+EOt6VaX/AJY+T7REH2/TNalIfun6UmNHj/w/8EeF7vxN4pjutA0+VLfUCsKvbqRGNiHA4461v3XivTPD2ua9FaaFCkuk2CTGaMhTKoDEJ04A2/rSfDhWXxT4vJBGdSOMjr8iVzPilGPirx1hSQdHQDjr8slDb5Y2/l/RFqKc5X7r80bc/wAVNYg8Nx+JD4V/4khUO85u8SqO58vbk8+/NWrv4l6nZW1tq1z4bKaDcuqpeG5/egMcAmLbkcn1ql4ijP8Awz0yKnP9np8oHsKl+IKH/hT9sqqc77fgD/potaSSjJ+UkvkzOC5lHzT/AA/4c3NX8bXS68NF8L6Uur36xiWYPP5McSnplsHk4PHtV3wp4rOvtd2l/Z/2fqlk4W5tfM3hc8ghsDIxjtXlWqaFoOl/EK4vfHX2m207ULaM217HcyxIGXOVbYR6iu4+G+n+E1ub6+8IWd75TkK19PM8iXHH8JZiTjGO1KK01/4Zktu33fPQ9AoooqSgooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooArT/APH1F/uN/NaKJ/8Aj6i/3G/mtFMRZooopDCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAEVFUkqoBPJIHWkMUZJJRSWGCSOtOooAaY0KbCilf7uOKGjRl2sqlfQjinUUAMkhilAEsaOB0DKDilSNIl2xoqL6KMCnUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBWn/4+ov8Acb+a0UT/APH1F/uN/NaKYj//2Q==)



1. Which model is the best forecasting model? Please provide your evidence

The best forecasting model is the linear and seasonal model because the MAPE is the lowest compared to all the other models. The MAPE for the training set is 10.502 and the test set has a 14.25 MAPE. All the other models have about a 20 MAPE for both sets of data. Based on the graphs, this model closely relates to the original graph.

1. Please copy and paste your R codes in your WORD submission.

install.packages('forecast')

install.packages("zoo")

library(forecast)

setwd('C:/Users/grays/Desktop/BusinessAnalytics')

# Read data

dataRC <- read.csv("AustralianWines.csv")

str(dataRC)

#delete missing values/NA's

dataRC <- na.omit(dataRC)

summary(dataRC,na.strings=c("NA",""))

# Convert data into time series object in R

# start: the time of the first observation

# frequency: number of times per year

xRC <- ts(dataRC$Red, start=c(1980,1),frequency = 12)

xRC

plot(xRC)

# Model 1

red.lmRC <- tslm(xRC~trend)

summary(red.lmRC)

#12 yrs (144 months) as train, 2 yrs (24months) as validation

nTrainRC <- 156

nValidRC <- length(xRC)-nTrainRC

train.tsRC <- window(xRC,start=c(1980,1),end=c(1980,nTrainRC))

valid.tsRC <- window(xRC,start=c(1980,nTrainRC+1),end=c(1980,nTrainRC+nValidRC))

train.lmRC <- tslm(train.tsRC~trend)

summary(train.lmRC)

train.lm.predRC <- forecast(train.lmRC,h=nValidRC,level=0)

# Visualize the linear trend model

par(mfrow = c(1, 1))

plot(train.lm.predRC, ylim = c(400, 4000), ylab = "Red", xlab = "Time",

bty = "l", xaxt = "n", xlim = c(1980,1995),main = "", flty = 2)

axis(1, at = seq(1980, 1995, 1), labels = format(seq(1980, 1995, 1)))

lines(train.lm.predRC$fitted, lwd = 2, col = "blue")

lines(valid.tsRC)

# Evaluate model performance

accuracy(train.lm.predRC,valid.tsRC)

# A model with seasonality

train.lm.seasonRC <- tslm(train.tsRC ~ season)

summary(train.lm.seasonRC)

train.lm.season.predRC <- forecast(train.lm.seasonRC, h = nValidRC, level = 0)

accuracy(train.lm.season.predRC,valid.tsRC)

# Visualize the seasonal model

par(mfrow = c(1, 1))

plot(train.lm.season.predRC, ylim = c(400, 4000), ylab = "Red", xlab = "Time",

bty = "l", xaxt = "n", xlim = c(1980,1995),main = "", flty = 2)

axis(1, at = seq(1980, 1995, 1), labels = format(seq(1980, 1995, 1)))

lines(train.lm.season.predRC$fitted, lwd = 2, col = "blue")

lines(valid.tsRC)

# Linear trend and seasonal

train.lm.trend.seasonRC <- tslm(train.tsRC ~ trend + season)

summary(train.lm.trend.seasonRC)

train.lm.trend.season.predRC <- forecast(train.lm.trend.seasonRC, h = nValidRC, level = 0)

accuracy(train.lm.trend.season.predRC,valid.tsRC)

par(mfrow = c(1, 1))

plot(train.lm.trend.season.predRC, ylim = c(400, 4000), ylab = "Red", xlab = "Time",

bty = "l", xaxt = "n", xlim = c(1980,1995),main = "", flty = 2)

axis(1, at = seq(1980, 1995, 1), labels = format(seq(1980, 1995, 1)))

lines(train.lm.trend.season.predRC$fitted, lwd = 2, col = "blue")

lines(valid.tsRC)

## simple exponential smRCthing model

sesRC <- ses(train.tsRC, alpha = 0.6492, h=24)

autoplot(sesRC)

accuracy(sesRC,valid.tsRC)

# Use ses function to estimate alpha

ses1RC <- ses(train.tsRC, alpha = NULL, h=24)

summary(ses1RC)

accuracy(ses1RC,valid.tsRC)