

# Art Theater Project

Jiyang Xu

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```
# Main question: How does quantity change as the categories of event and ticket type change?
# Main goal:
# Finding the most targeting group from four major consumer types(students, adults, members, senior cit

# 1. Processing Data ("ticket_sales_by_showing.txt" and "gross_revenue_by_event.txt")
# a. ticket_sales_by_showing.txt
# Overall information
file.info("ticket_sales_by_showing.txt")$size

## [1] 902417

ticket_sales_ <- read.csv("ticket_sales_by_showing.txt")

# Filtering data of ticket sales in August 2019, the last month the theater opens
ticket_sale <- ticket_sales_[grepl("2019", ticket_sales_$EventDate) & grepl("Aug", ticket_sales_$EventD
ticket_sale <- ticket_sale[,c(-1,-3,-4,-7,-8)]

# count the occurrences of different movies and drop the movies occur below 15
table(ticket_sale$EventName)

##
##          A Faithful Man          American Woman
##                      1                      13
##          Echo In The Canyon          Luce
##                      22                      5
##                      Maiden          Ophelia
##                      15                      15
##          Pavarotti          Pet Sematary
##                      21                      4
##          Sword of Trust          The Dead Don't Die
##                      10                      9
##          The Farewell The Last Black Man in San Francisco
##                      66                      6
##          The Nightingale          Toni Morrison: The Pieces I am
##                      4                      9

ticket_sale_ <- ticket_sale[ticket_sale$EventName == 'Echo In The Canyon' | ticket_sale$EventName == "M
# Set event name, ticket type, and item price as factor parameters, quantity as the respond variable
ticket_sale_$EventName <- as.factor(ticket_sale_$EventName)
is.factor(ticket_sale_$EventName)

## [1] TRUE

table(ticket_sale_$EventName)
```

```
##
## Echo In The Canyon      Maiden      Ophelia      Pavarotti
##           22           15           15           21
##           The Farewell
##           66
```

```
nlevels(ticket_sale_$EventName)
```

```
## [1] 5
```

```
ticket_sale_$TicketType <- as.factor(ticket_sale_$TicketType)
nlevels(ticket_sale_$TicketType)
```

```
## [1] 4
```

```
ticket_sale_
```

```
##           EventName      TicketType Quantity
## 1441 Echo In The Canyon      Adult      13
## 1443 Echo In The Canyon Senior Citizen    10
## 1444 Echo In The Canyon      Student      1
## 1445 Echo In The Canyon      Adult      4
## 1447 Echo In The Canyon      Member      2
## 1448 Echo In The Canyon Senior Citizen    11
## 1449 Echo In The Canyon      Adult      10
## 1450 Echo In The Canyon Senior Citizen    29
## 1451 Echo In The Canyon      Student      1
## 1452 Echo In The Canyon      Adult      3
## 1453 Echo In The Canyon Senior Citizen      8
## 1454 Echo In The Canyon      Adult      13
## 1455 Echo In The Canyon Senior Citizen    18
## 1459 Echo In The Canyon      Member      1
## 1460 Echo In The Canyon      Adult      8
## 1461 Echo In The Canyon Senior Citizen      8
## 1462 Echo In The Canyon      Student      2
## 1463 Echo In The Canyon      Adult      4
## 1464 Echo In The Canyon Senior Citizen    13
## 1465 Echo In The Canyon      Adult      12
## 1466 Echo In The Canyon Senior Citizen    23
## 1467 Echo In The Canyon      Student      1
## 3438           Maiden      Adult      6
## 3440           Maiden Senior Citizen    10
## 3441           Maiden      Adult      6
## 3442           Maiden Senior Citizen      7
## 3443           Maiden      Adult     18
## 3444           Maiden Senior Citizen    16
## 3445           Maiden      Student      1
## 3446           Maiden      Adult     12
## 3447           Maiden Senior Citizen    10
## 3448           Maiden      Student      1
## 3450           Maiden      Adult      4
## 3452           Maiden      Member      1
## 3453           Maiden Senior Citizen      8
## 3455           Maiden      Adult     14
## 3456           Maiden Senior Citizen    11
## 4367           Ophelia      Adult      4
```

## 4368	Ophelia Senior Citizen	4
## 4369	Ophelia Adult	3
## 4371	Ophelia Senior Citizen	4
## 4372	Ophelia Adult	6
## 4373	Ophelia Member	2
## 4374	Ophelia Senior Citizen	9
## 4375	Ophelia Student	2
## 4377	Ophelia Member	1
## 4378	Ophelia Adult	4
## 4379	Ophelia Senior Citizen	4
## 4380	Ophelia Student	6
## 4381	Ophelia Adult	4
## 4382	Ophelia Senior Citizen	9
## 4383	Ophelia Student	1
## 4486	Pavarotti Adult	7
## 4487	Pavarotti Member	1
## 4488	Pavarotti Senior Citizen	20
## 4489	Pavarotti Student	3
## 4490	Pavarotti Adult	15
## 4491	Pavarotti Senior Citizen	49
## 4493	Pavarotti Adult	13
## 4495	Pavarotti Member	1
## 4496	Pavarotti Senior Citizen	49
## 4497	Pavarotti Student	1
## 4498	Pavarotti Adult	4
## 4499	Pavarotti Member	1
## 4500	Pavarotti Senior Citizen	47
## 4501	Pavarotti Adult	26
## 4503	Pavarotti Member	3
## 4504	Pavarotti Senior Citizen	109
## 4506	Pavarotti Adult	7
## 4507	Pavarotti Senior Citizen	41
## 4508	Pavarotti Adult	7
## 4510	Pavarotti Senior Citizen	36
## 4511	Pavarotti Student	6
## 5690	The Farewell Senior Citizen	4
## 5691	The Farewell Student	2
## 5692	The Farewell Adult	20
## 5694	The Farewell Senior Citizen	10
## 5695	The Farewell Student	6
## 5696	The Farewell Senior Citizen	2
## 5697	The Farewell Adult	14
## 5698	The Farewell Member	1
## 5699	The Farewell Senior Citizen	18
## 5700	The Farewell Student	1
## 5701	The Farewell Adult	23
## 5702	The Farewell Senior Citizen	17
## 5703	The Farewell Student	5
## 5704	The Farewell Adult	19
## 5705	The Farewell Senior Citizen	15
## 5706	The Farewell Student	8
## 5707	The Farewell Adult	12
## 5708	The Farewell Senior Citizen	3
## 5709	The Farewell Student	4

## 5710	The Farewell	Adult	16
## 5711	The Farewell	Senior Citizen	7
## 5712	The Farewell	Student	5
## 5713	The Farewell	Adult	4
## 5715	The Farewell	Senior Citizen	10
## 5716	The Farewell	Student	1
## 5717	The Farewell	Adult	13
## 5718	The Farewell	Senior Citizen	4
## 5719	The Farewell	Student	7
## 5721	The Farewell	Adult	7
## 5722	The Farewell	Student	1
## 5723	The Farewell	Adult	18
## 5724	The Farewell	Senior Citizen	4
## 5725	The Farewell	Student	8
## 5726	The Farewell	Adult	10
## 5727	The Farewell	Senior Citizen	10
## 5728	The Farewell	Student	1
## 5729	The Farewell	Adult	17
## 5731	The Farewell	Senior Citizen	9
## 5732	The Farewell	Student	5
## 5733	The Farewell	Adult	1
## 5734	The Farewell	Member	1
## 5735	The Farewell	Senior Citizen	4
## 5736	The Farewell	Adult	18
## 5737	The Farewell	Senior Citizen	4
## 5738	The Farewell	Student	8
## 5740	The Farewell	Adult	9
## 5741	The Farewell	Senior Citizen	4
## 5742	The Farewell	Student	1
## 5743	The Farewell	Adult	7
## 5744	The Farewell	Senior Citizen	2
## 5745	The Farewell	Student	2
## 5747	The Farewell	Adult	8
## 5748	The Farewell	Senior Citizen	9
## 5749	The Farewell	Student	6
## 5750	The Farewell	Adult	10
## 5753	The Farewell	Senior Citizen	4
## 5754	The Farewell	Student	13
## 5759	The Farewell	Member	1
## 5760	The Farewell	Senior Citizen	5
## 5761	The Farewell	Student	2
## 5762	The Farewell	Adult	4
## 5764	The Farewell	Senior Citizen	7
## 5765	The Farewell	Student	5
## 5766	The Farewell	Adult	9
## 5767	The Farewell	Senior Citizen	1
## 5768	The Farewell	Student	2

*# Now the data frame of ticket sales is the data represents the events that have relatively complete re*

```
# b. gross_revenue_by_event.txt
file.info("gross_revenue_by_event.txt")$size
```

```
## [1] 13061
```

```
gross_revenue <- read.csv("gross_revenue_by_event.txt")

# Filtering data of five movies selected
gross_revenue_ <- gross_revenue[gross_revenue$Event == 'Echo In The Canyon' | gross_revenue$Event == "Maiden", ]
gross_revenue_

##           Event Gross.Revenue
## 110 Echo In The Canyon    $1,808.00
## 210          Maiden      $1,293.25
## 261          Ophelia      $561.75
## 265          Pavarotti    $3,716.00
## 356        The Farewell    $4,322.25

# Now the data frame of gross revenue is the data represents the events that have relatively complete r

# First using mosaic plot to show the percentages of data and rough distribution of event and ticket ty
library(vcd)

## Loading required package: grid

# hard to see the full name of events in the graph, so use the first letter
ticket_sale <- ticket_sale_
ticket_sale$TicketType <- as.factor(ticket_sale$TicketType)
ticket_sale$EventName <- as.factor(ticket_sale$EventName)
levels(ticket_sale$EventName)

## [1] "Echo In The Canyon" "Maiden"          "Ophelia"
## [4] "Pavarotti"          "The Farewell"

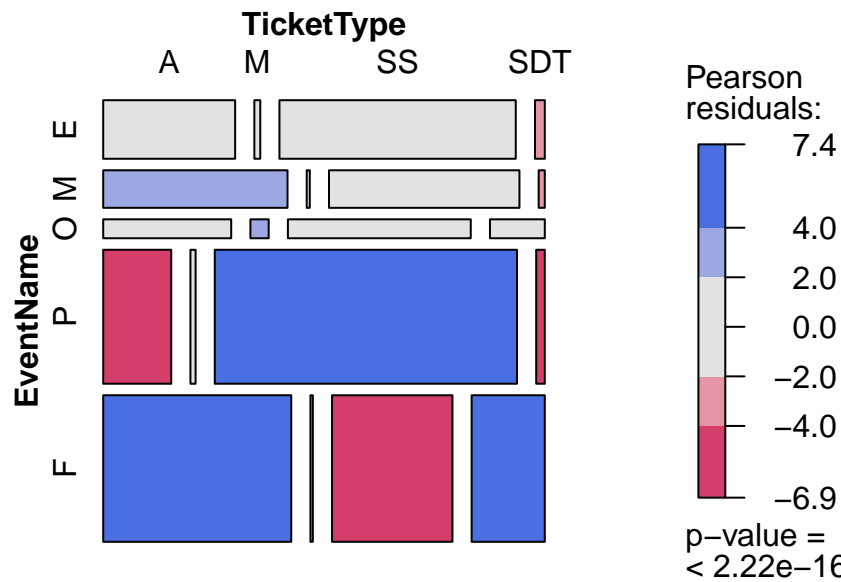
levels(ticket_sale$TicketType)

## [1] "Adult"          "Member"          "Senior Citizen" "Student"

levels(ticket_sale$EventName) <- c("E", "M", "O", "P", "F")
levels(ticket_sale$TicketType) <- c("A", "M", "SS", "SDT")
btable <- xtabs(Quantity ~ TicketType+EventName, data = ticket_sale)
btable

##           EventName
## TicketType  E    M    O    P    F
##      A      67   60   21   79  239
##      M       3    1    3    6    3
##      SS     120   62   30  351  153
##      SDT      5    2    9   10   93

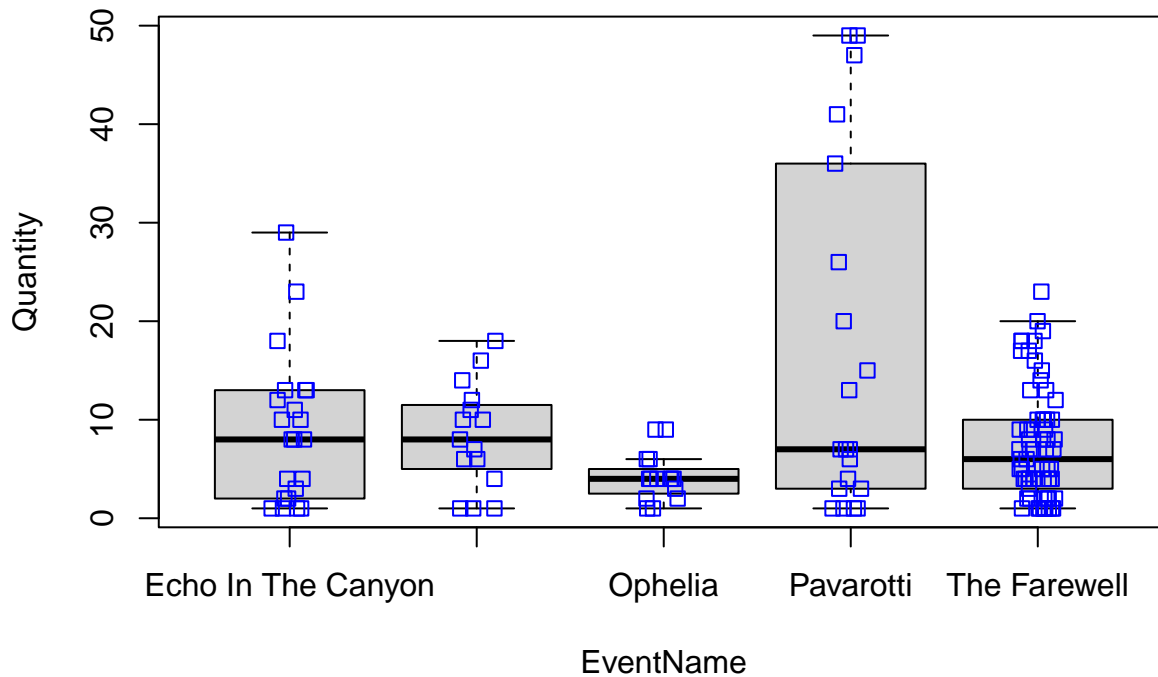
mosaic(t(btable), spacing = spacing_increase(start = 0.5, rate = 0.6), shade = TRUE)
```



Based on the mosaic plot above, senior citizen group in “Echo In The Canyon”, senior citizen group in “Pavarotti”, “The Farewell” in adult and member groups are significant here, and further hypothesis tests are conducted to test for our assumptions.

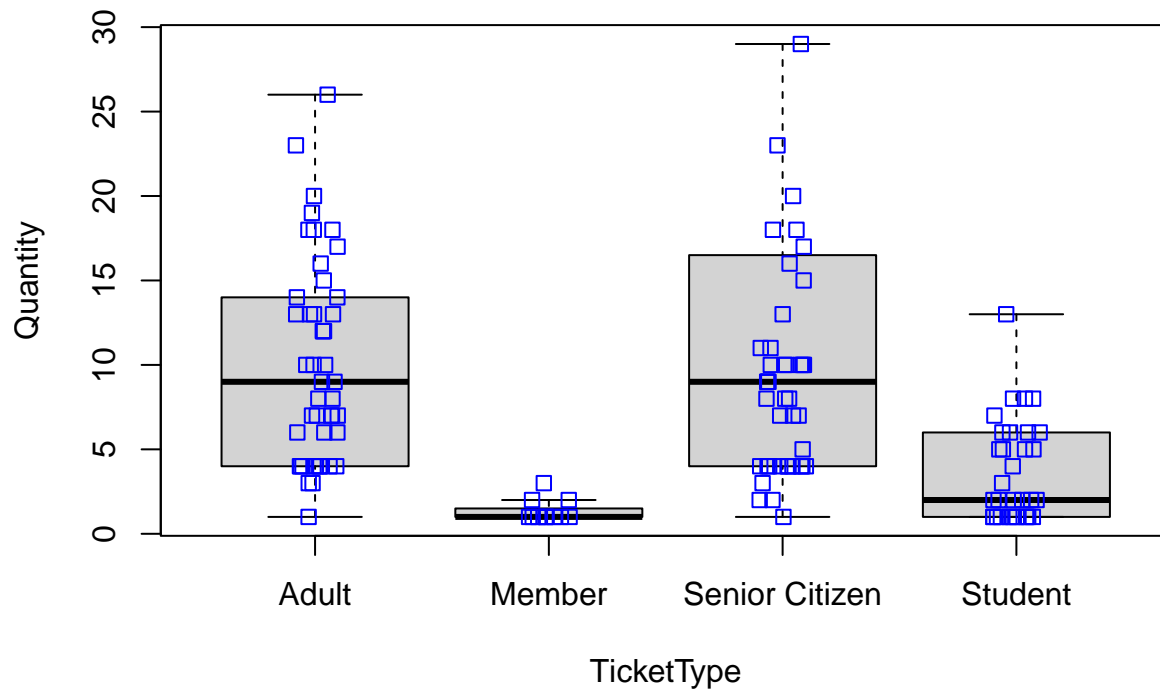
## # 2. Two-Way Anova

```
boxplot(Quantity~EventName, data = ticket_sale_, outline=FALSE)
stripchart(Quantity~EventName, data=ticket_sale_, method="jitter", col="blue", vertical=TRUE, add=TRUE)
```



Based on this plot, we find that five events are at the same level except ophelia and we cannot tell whether there is a statistically difference here.

```
boxplot(Quantity~TicketType, data = ticket_sale_, outline=FALSE)
stripchart(Quantity~TicketType, data=ticket_sale_, method="jitter", col="blue", vertical=TRUE, add=TRUE)
```

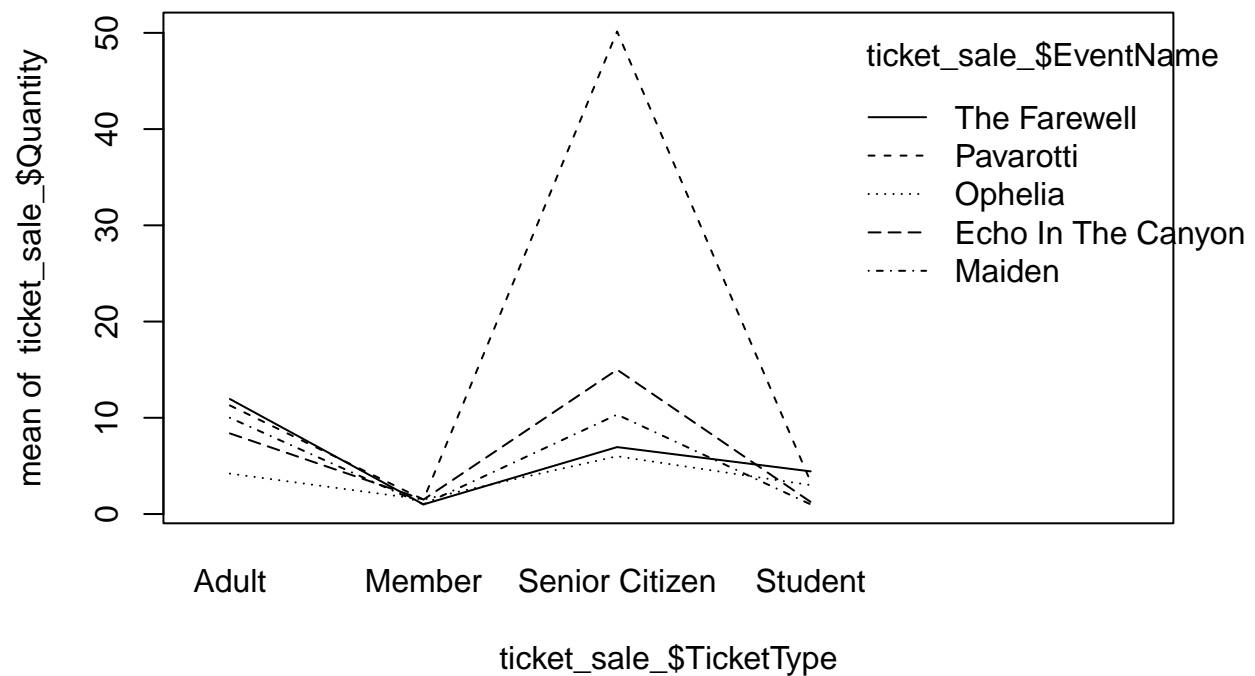


Based

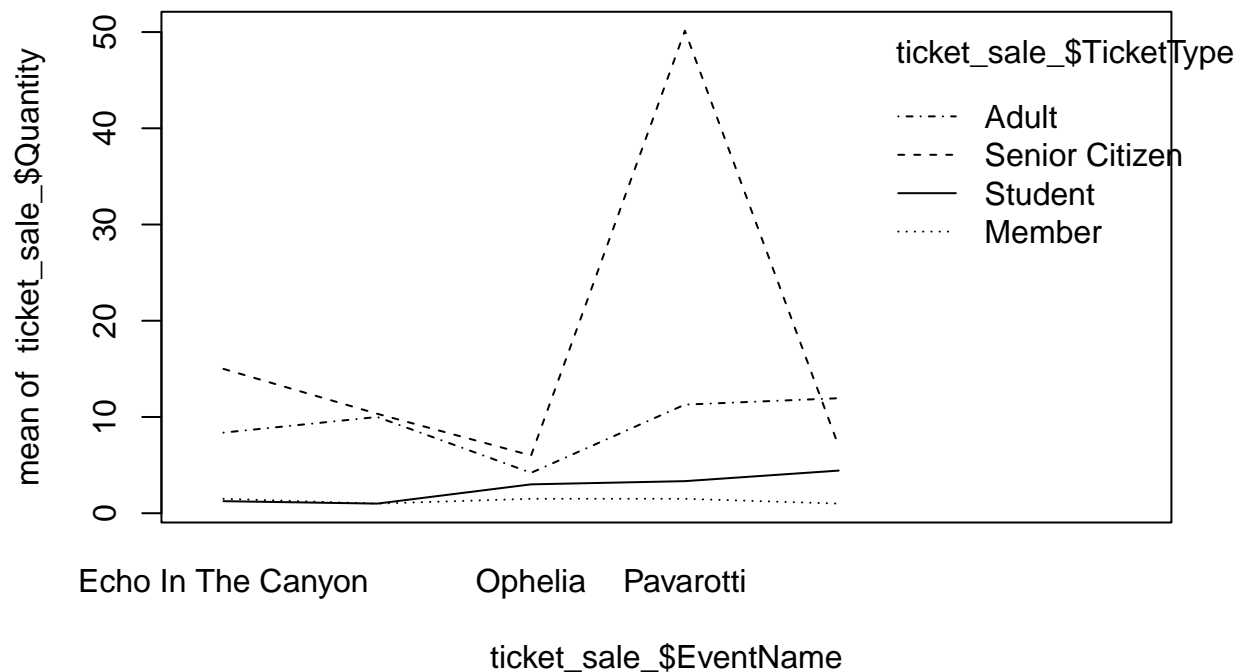
on this plot, we find that quantity at all four levels are at different level but adult and senior citizen, student and member have relatively same level. However, we cannot tell whether there is a statistically difference here since there are boxes overlap here.

*# construct the interaction plots*

```
interaction.plot(ticket_sale_$TicketType, ticket_sale_$EventName, ticket_sale_$Quantity)
```



```
interaction.plot(ticket_sale_$EventName, ticket_sale_$TicketType, ticket_sale_$Quantity)
```



There are interections in both groups

```
# Investigate whether the interactions are statistically significant or not
# start with the model with interactions
library(car)
```

```
## Loading required package: carData
```

```
ticket_sale_full = lm(Quantity ~ EventName*TicketType, data = ticket_sale_)
summary(ticket_sale_full)
```

```
##
## Call:
## lm(formula = Quantity ~ EventName * TicketType, data = ticket_sale_)
##
## Residuals:
```

	Min	1Q	Median	3Q	Max
	-30.143	-2.955	-0.333	2.048	58.857

```
##
## Coefficients:
```

	Estimate	Std. Error	t value
(Intercept)	8.3750	2.7510	3.044
EventNameMaiden	1.6250	4.2022	0.387
EventNameOphelia	-4.1750	4.4359	-0.941
EventNamePavarotti	2.9107	4.0271	0.723
EventNameThe Farewell	3.5750	3.2550	1.098
TicketTypeMember	-6.8750	6.1514	-1.118
TicketTypeSenior Citizen	6.6250	3.8905	1.703
TicketTypeStudent	-7.1250	4.7649	-1.495
EventNameMaiden:TicketTypeMember	-2.1250	10.4151	-0.204
EventNameOphelia:TicketTypeMember	4.1750	8.9566	0.466
EventNamePavarotti:TicketTypeMember	-2.9107	7.8502	-0.371
EventNameThe Farewell:TicketTypeMember	-4.0750	7.8134	-0.522
EventNameMaiden:TicketTypeSenior Citizen	-6.2917	5.9428	-1.059



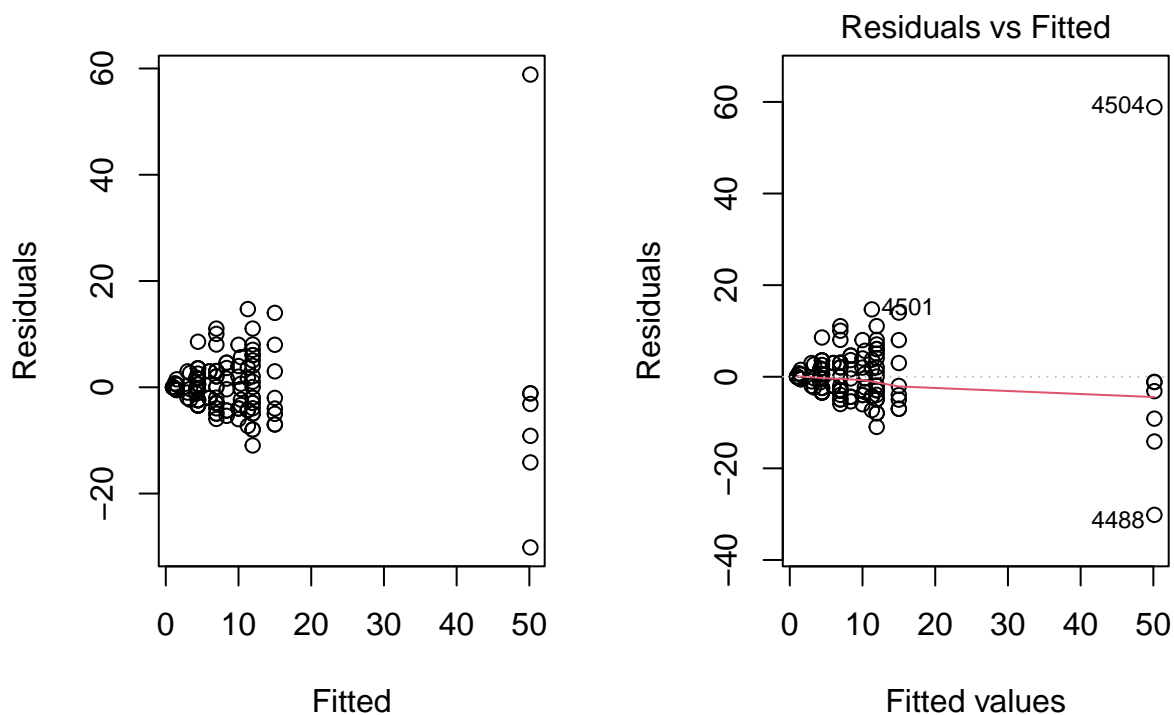
```
## EventNameOphelia:TicketTypeSenior Citizen      -4.8250      6.2733  -0.769
## EventNamePavarotti:TicketTypeSenior Citizen     32.2321      5.6951   5.660
## EventNameThe Farewell:TicketTypeSenior Citizen -11.6205      4.5733  -2.541
## EventNameMaiden:TicketTypeStudent              -1.8750      7.9415  -0.236
## EventNameOphelia:TicketTypeStudent              5.9250      7.4158   0.799
## EventNamePavarotti:TicketTypeStudent           -0.8274      7.1788  -0.115
## EventNameThe Farewell:TicketTypeStudent        -0.3964      5.3492  -0.074
##                                                    Pr(>|t|)
## (Intercept)                                0.00287 **
## EventNameMaiden                          0.69967
## EventNameOphelia                        0.34851
## EventNamePavarotti                     0.47123
## EventNameThe Farewell                   0.27429
## TicketTypeMember                       0.26598
## TicketTypeSenior Citizen                0.09120 .
## TicketTypeStudent                      0.13748
## EventNameMaiden:TicketTypeMember         0.83868
## EventNameOphelia:TicketTypeMember        0.64197
## EventNamePavarotti:TicketTypeMember      0.71146
## EventNameThe Farewell:TicketTypeMember   0.60296
## EventNameMaiden:TicketTypeSenior Citizen 0.29188
## EventNameOphelia:TicketTypeSenior Citizen 0.44334
## EventNamePavarotti:TicketTypeSenior Citizen 1.07e-07 ***
## EventNameThe Farewell:TicketTypeSenior Citizen 0.01234 *
## EventNameMaiden:TicketTypeStudent        0.81376
## EventNameOphelia:TicketTypeStudent       0.42590
## EventNamePavarotti:TicketTypeStudent     0.90844
## EventNameThe Farewell:TicketTypeStudent  0.94105
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 7.781 on 119 degrees of freedom
## Multiple R-squared:  0.6651, Adjusted R-squared:  0.6116
## F-statistic: 12.44 on 19 and 119 DF,  p-value: < 2.2e-16
Anova(lm(Quantity ~ EventName*TicketType, data = ticket_sale_), type = "III")
```

```
## Anova Table (Type III tests)
##
## Response: Quantity
##              Sum Sq Df F value    Pr(>F)
## (Intercept)    561.1  1  9.2680 0.002871 **
## EventName      276.2  4  1.1403 0.340956
## TicketType     643.5  3  3.5427 0.016768 *
## EventName:TicketType 7045.5 12  9.6975 6.076e-13 ***
## Residuals      7204.8 119
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

The p-value of interaction here is 6.076e-13, which is statistically significant, so we don't remove it and the full model is the final model.

```
# 3. Check Model Assumption
par(mfrow=c(1,2))
plot(ticket_sale_full$fitted, ticket_sale_full$res, xlab="Fitted", ylab="Residuals")
```

```
# Checking Constancy of Variance
plot(ticket_sale_full, which = 1)
```



```
library(lmtest)
```

```
## Loading required package: zoo
```

```
##
```

```
## Attaching package: 'zoo'
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
## as.Date, as.Date.numeric
```

```
bptest(ticket_sale_full)
```

```
##
```

```
## studentized Breusch-Pagan test
```

```
##
```

```
## data: ticket_sale_full
```

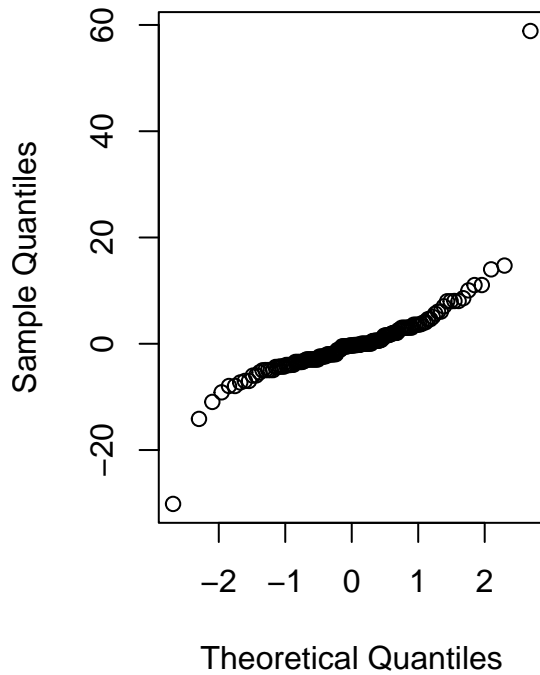
```
## BP = 30.89, df = 19, p-value = 0.0415
```

```
# Checking Normality
```

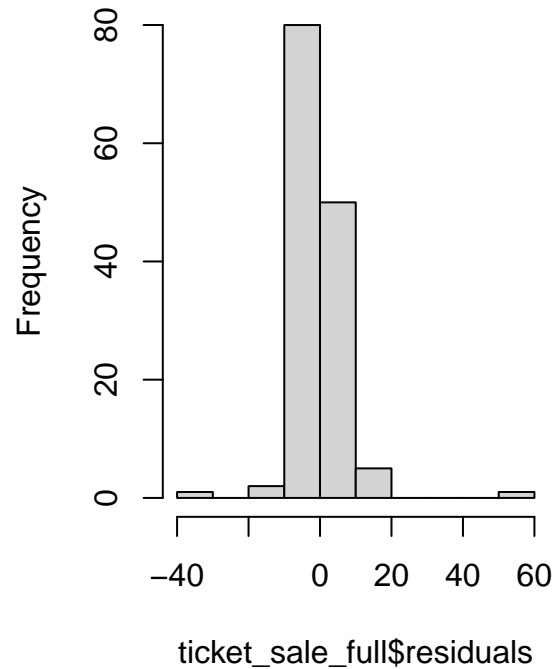
```
qqnorm(ticket_sale_full$res)
```

```
hist(ticket_sale_full$residuals)
```

Normal Q-Q Plot



Histogram of ticket\_sale\_full\$resid



```
shapiro.test(ticket_sale_full$residuals)
```

```
##
##  Shapiro-Wilk normality test
##
## data:  ticket_sale_full$residuals
## W = 0.68602, p-value = 7.451e-16
```

Reject null hypothesis in both bp test and shapiro test, which indicates that the model satisfies normality and constant variance assumptions. No model transformation needed.

```
# 4. Pairwise Comparisons
library(DescTools)
```

```
##
## Attaching package: 'DescTools'
## The following object is masked from 'package:car':
##
##   Recode
```

```
ANOVA=aov(ticket_sale_full)
ScheffeTest(ANOVA)
```

```
##
##   Posthoc multiple comparisons of means: Scheffe Test
##     95% family-wise confidence level
##
## $EventName
##           diff      lwr.ci    upr.ci    pval
## Maiden-Echo In The Canyon -0.5303030 -15.226833  14.166227  1.0000
## Ophelia-Echo In The Canyon -4.6636364 -19.360166  10.032893  1.0000
```

```

## Pavarotti-Echo In The Canyon      12.3744589  -1.015651 25.764569 0.1255
## The Farewell-Echo In The Canyon   -1.4696970 -12.274801  9.335407 1.0000
## Ophelia-Maiden                    -4.1333333 -20.159892 11.893225 1.0000
## Pavarotti-Maiden                   12.9047619  -1.932948 27.742472 0.2185
## The Farewell-Maiden                -0.9393939 -13.493790 11.615002 1.0000
## Pavarotti-Ophelia                  17.0380952   2.200385 31.875805 0.0053 **
## The Farewell-Ophelia                3.1939394  -9.360457 15.748335 1.0000
## The Farewell-Pavarotti             -13.8441558 -24.840515 -2.847797 0.0007 ***
##
## $TicketType
##               diff      lwr.ci      upr.ci      pval
## Member-Adult      -11.065048 -25.292115   3.1620187 0.4517
## Senior Citizen-Adult  4.875302  -4.180675 13.9312787 0.9642
## Student-Adult      -5.589973 -15.602612  4.4226667 0.9480
## Senior Citizen-Member 15.940350   1.774740 30.1059603 0.0077 **
## Student-Member      5.475075  -9.320422 20.2705729 0.9997
## Student-Senior Citizen -10.465274 -20.390396 -0.5401531 0.0234 *
##
## $`EventName:TicketType`
##                                     diff
## Maiden:Adult-Echo In The Canyon:Adult      1.625000e+00
## Ophelia:Adult-Echo In The Canyon:Adult      -4.175000e+00
## Pavarotti:Adult-Echo In The Canyon:Adult      2.910714e+00
## The Farewell:Adult-Echo In The Canyon:Adult      3.575000e+00
## Echo In The Canyon:Member-Echo In The Canyon:Adult -6.875000e+00
## Maiden:Member-Echo In The Canyon:Adult      -7.375000e+00
## Ophelia:Member-Echo In The Canyon:Adult      -6.875000e+00
## Pavarotti:Member-Echo In The Canyon:Adult      -6.875000e+00
## The Farewell:Member-Echo In The Canyon:Adult      -7.375000e+00
## Echo In The Canyon:Senior Citizen-Echo In The Canyon:Adult 6.625000e+00
## Maiden:Senior Citizen-Echo In The Canyon:Adult 1.958333e+00
## Ophelia:Senior Citizen-Echo In The Canyon:Adult -2.375000e+00
## Pavarotti:Senior Citizen-Echo In The Canyon:Adult 4.176786e+01
## The Farewell:Senior Citizen-Echo In The Canyon:Adult -1.420455e+00
## Echo In The Canyon:Student-Echo In The Canyon:Adult -7.125000e+00
## Maiden:Student-Echo In The Canyon:Adult      -7.375000e+00
## Ophelia:Student-Echo In The Canyon:Adult      -5.375000e+00
## Pavarotti:Student-Echo In The Canyon:Adult      -5.041667e+00
## The Farewell:Student-Echo In The Canyon:Adult      -3.946429e+00
## Ophelia:Adult-Maiden:Adult      -5.800000e+00
## Pavarotti:Adult-Maiden:Adult      1.285714e+00
## The Farewell:Adult-Maiden:Adult      1.950000e+00
## Echo In The Canyon:Member-Maiden:Adult      -8.500000e+00
## Maiden:Member-Maiden:Adult      -9.000000e+00
## Ophelia:Member-Maiden:Adult      -8.500000e+00
## Pavarotti:Member-Maiden:Adult      -8.500000e+00
## The Farewell:Member-Maiden:Adult      -9.000000e+00
## Echo In The Canyon:Senior Citizen-Maiden:Adult 5.000000e+00
## Maiden:Senior Citizen-Maiden:Adult      3.333333e-01
## Ophelia:Senior Citizen-Maiden:Adult      -4.000000e+00
## Pavarotti:Senior Citizen-Maiden:Adult      4.014286e+01
## The Farewell:Senior Citizen-Maiden:Adult      -3.045455e+00
## Echo In The Canyon:Student-Maiden:Adult      -8.750000e+00
## Maiden:Student-Maiden:Adult      -9.000000e+00

```

## Ophelia:Student-Maiden:Adult	-7.000000e+00
## Pavarotti:Student-Maiden:Adult	-6.666667e+00
## The Farewell:Student-Maiden:Adult	-5.571429e+00
## Pavarotti:Adult-Ophelia:Adult	7.085714e+00
## The Farewell:Adult-Ophelia:Adult	7.750000e+00
## Echo In The Canyon:Member-Ophelia:Adult	-2.700000e+00
## Maiden:Member-Ophelia:Adult	-3.200000e+00
## Ophelia:Member-Ophelia:Adult	-2.700000e+00
## Pavarotti:Member-Ophelia:Adult	-2.700000e+00
## The Farewell:Member-Ophelia:Adult	-3.200000e+00
## Echo In The Canyon:Senior Citizen-Ophelia:Adult	1.080000e+01
## Maiden:Senior Citizen-Ophelia:Adult	6.133333e+00
## Ophelia:Senior Citizen-Ophelia:Adult	1.800000e+00
## Pavarotti:Senior Citizen-Ophelia:Adult	4.594286e+01
## The Farewell:Senior Citizen-Ophelia:Adult	2.754545e+00
## Echo In The Canyon:Student-Ophelia:Adult	-2.950000e+00
## Maiden:Student-Ophelia:Adult	-3.200000e+00
## Ophelia:Student-Ophelia:Adult	-1.200000e+00
## Pavarotti:Student-Ophelia:Adult	-8.666667e-01
## The Farewell:Student-Ophelia:Adult	2.285714e-01
## The Farewell:Adult-Pavarotti:Adult	6.642857e-01
## Echo In The Canyon:Member-Pavarotti:Adult	-9.785714e+00
## Maiden:Member-Pavarotti:Adult	-1.028571e+01
## Ophelia:Member-Pavarotti:Adult	-9.785714e+00
## Pavarotti:Member-Pavarotti:Adult	-9.785714e+00
## The Farewell:Member-Pavarotti:Adult	-1.028571e+01
## Echo In The Canyon:Senior Citizen-Pavarotti:Adult	3.714286e+00
## Maiden:Senior Citizen-Pavarotti:Adult	-9.523810e-01
## Ophelia:Senior Citizen-Pavarotti:Adult	-5.285714e+00
## Pavarotti:Senior Citizen-Pavarotti:Adult	3.885714e+01
## The Farewell:Senior Citizen-Pavarotti:Adult	-4.331169e+00
## Echo In The Canyon:Student-Pavarotti:Adult	-1.003571e+01
## Maiden:Student-Pavarotti:Adult	-1.028571e+01
## Ophelia:Student-Pavarotti:Adult	-8.285714e+00
## Pavarotti:Student-Pavarotti:Adult	-7.952381e+00
## The Farewell:Student-Pavarotti:Adult	-6.857143e+00
## Echo In The Canyon:Member-The Farewell:Adult	-1.045000e+01
## Maiden:Member-The Farewell:Adult	-1.095000e+01
## Ophelia:Member-The Farewell:Adult	-1.045000e+01
## Pavarotti:Member-The Farewell:Adult	-1.045000e+01
## The Farewell:Member-The Farewell:Adult	-1.095000e+01
## Echo In The Canyon:Senior Citizen-The Farewell:Adult	3.050000e+00
## Maiden:Senior Citizen-The Farewell:Adult	-1.616667e+00
## Ophelia:Senior Citizen-The Farewell:Adult	-5.950000e+00
## Pavarotti:Senior Citizen-The Farewell:Adult	3.819286e+01
## The Farewell:Senior Citizen-The Farewell:Adult	-4.995455e+00
## Echo In The Canyon:Student-The Farewell:Adult	-1.070000e+01
## Maiden:Student-The Farewell:Adult	-1.095000e+01
## Ophelia:Student-The Farewell:Adult	-8.950000e+00
## Pavarotti:Student-The Farewell:Adult	-8.616667e+00
## The Farewell:Student-The Farewell:Adult	-7.521429e+00
## Maiden:Member-Echo In The Canyon:Member	-5.000000e-01
## Ophelia:Member-Echo In The Canyon:Member	1.154632e-14
## Pavarotti:Member-Echo In The Canyon:Member	2.486900e-14

## The Farewell:Member-Echo In The Canyon:Member	-5.000000e-01
## Echo In The Canyon:Senior Citizen-Echo In The Canyon:Member	1.350000e+01
## Maiden:Senior Citizen-Echo In The Canyon:Member	8.833333e+00
## Ophelia:Senior Citizen-Echo In The Canyon:Member	4.500000e+00
## Pavarotti:Senior Citizen-Echo In The Canyon:Member	4.864286e+01
## The Farewell:Senior Citizen-Echo In The Canyon:Member	5.454545e+00
## Echo In The Canyon:Student-Echo In The Canyon:Member	-2.500000e-01
## Maiden:Student-Echo In The Canyon:Member	-5.000000e-01
## Ophelia:Student-Echo In The Canyon:Member	1.500000e+00
## Pavarotti:Student-Echo In The Canyon:Member	1.833333e+00
## The Farewell:Student-Echo In The Canyon:Member	2.928571e+00
## Ophelia:Member-Maiden:Member	5.000000e-01
## Pavarotti:Member-Maiden:Member	5.000000e-01
## The Farewell:Member-Maiden:Member	-7.993606e-15
## Echo In The Canyon:Senior Citizen-Maiden:Member	1.400000e+01
## Maiden:Senior Citizen-Maiden:Member	9.333333e+00
## Ophelia:Senior Citizen-Maiden:Member	5.000000e+00
## Pavarotti:Senior Citizen-Maiden:Member	4.914286e+01
## The Farewell:Senior Citizen-Maiden:Member	5.954545e+00
## Echo In The Canyon:Student-Maiden:Member	2.500000e-01
## Maiden:Student-Maiden:Member	9.992007e-15
## Ophelia:Student-Maiden:Member	2.000000e+00
## Pavarotti:Student-Maiden:Member	2.333333e+00
## The Farewell:Student-Maiden:Member	3.428571e+00
## Pavarotti:Member-Ophelia:Member	1.332268e-14
## The Farewell:Member-Ophelia:Member	-5.000000e-01
## Echo In The Canyon:Senior Citizen-Ophelia:Member	1.350000e+01
## Maiden:Senior Citizen-Ophelia:Member	8.833333e+00
## Ophelia:Senior Citizen-Ophelia:Member	4.500000e+00
## Pavarotti:Senior Citizen-Ophelia:Member	4.864286e+01
## The Farewell:Senior Citizen-Ophelia:Member	5.454545e+00
## Echo In The Canyon:Student-Ophelia:Member	-2.500000e-01
## Maiden:Student-Ophelia:Member	-5.000000e-01
## Ophelia:Student-Ophelia:Member	1.500000e+00
## Pavarotti:Student-Ophelia:Member	1.833333e+00
## The Farewell:Student-Ophelia:Member	2.928571e+00
## The Farewell:Member-Pavarotti:Member	-5.000000e-01
## Echo In The Canyon:Senior Citizen-Pavarotti:Member	1.350000e+01
## Maiden:Senior Citizen-Pavarotti:Member	8.833333e+00
## Ophelia:Senior Citizen-Pavarotti:Member	4.500000e+00
## Pavarotti:Senior Citizen-Pavarotti:Member	4.864286e+01
## The Farewell:Senior Citizen-Pavarotti:Member	5.454545e+00
## Echo In The Canyon:Student-Pavarotti:Member	-2.500000e-01
## Maiden:Student-Pavarotti:Member	-5.000000e-01
## Ophelia:Student-Pavarotti:Member	1.500000e+00
## Pavarotti:Student-Pavarotti:Member	1.833333e+00
## The Farewell:Student-Pavarotti:Member	2.928571e+00
## Echo In The Canyon:Senior Citizen-The Farewell:Member	1.400000e+01
## Maiden:Senior Citizen-The Farewell:Member	9.333333e+00
## Ophelia:Senior Citizen-The Farewell:Member	5.000000e+00
## Pavarotti:Senior Citizen-The Farewell:Member	4.914286e+01
## The Farewell:Senior Citizen-The Farewell:Member	5.954545e+00
## Echo In The Canyon:Student-The Farewell:Member	2.500000e-01
## Maiden:Student-The Farewell:Member	1.798561e-14

## Ophelia:Student-The Farewell:Member	2.000000e+00
## Pavarotti:Student-The Farewell:Member	2.333333e+00
## The Farewell:Student-The Farewell:Member	3.428571e+00
## Maiden:Senior Citizen-Echo In The Canyon:Senior Citizen	-4.666667e+00
## Ophelia:Senior Citizen-Echo In The Canyon:Senior Citizen	-9.000000e+00
## Pavarotti:Senior Citizen-Echo In The Canyon:Senior Citizen	3.514286e+01
## The Farewell:Senior Citizen-Echo In The Canyon:Senior Citizen	-8.045455e+00
## Echo In The Canyon:Student-Echo In The Canyon:Senior Citizen	-1.375000e+01
## Maiden:Student-Echo In The Canyon:Senior Citizen	-1.400000e+01
## Ophelia:Student-Echo In The Canyon:Senior Citizen	-1.200000e+01
## Pavarotti:Student-Echo In The Canyon:Senior Citizen	-1.166667e+01
## The Farewell:Student-Echo In The Canyon:Senior Citizen	-1.057143e+01
## Ophelia:Senior Citizen-Maiden:Senior Citizen	-4.333333e+00
## Pavarotti:Senior Citizen-Maiden:Senior Citizen	3.980952e+01
## The Farewell:Senior Citizen-Maiden:Senior Citizen	-3.378788e+00
## Echo In The Canyon:Student-Maiden:Senior Citizen	-9.083333e+00
## Maiden:Student-Maiden:Senior Citizen	-9.333333e+00
## Ophelia:Student-Maiden:Senior Citizen	-7.333333e+00
## Pavarotti:Student-Maiden:Senior Citizen	-7.000000e+00
## The Farewell:Student-Maiden:Senior Citizen	-5.904762e+00
## Pavarotti:Senior Citizen-Ophelia:Senior Citizen	4.414286e+01
## The Farewell:Senior Citizen-Ophelia:Senior Citizen	9.545455e-01
## Echo In The Canyon:Student-Ophelia:Senior Citizen	-4.750000e+00
## Maiden:Student-Ophelia:Senior Citizen	-5.000000e+00
## Ophelia:Student-Ophelia:Senior Citizen	-3.000000e+00
## Pavarotti:Student-Ophelia:Senior Citizen	-2.666667e+00
## The Farewell:Student-Ophelia:Senior Citizen	-1.571429e+00
## The Farewell:Senior Citizen-Pavarotti:Senior Citizen	-4.318831e+01
## Echo In The Canyon:Student-Pavarotti:Senior Citizen	-4.889286e+01
## Maiden:Student-Pavarotti:Senior Citizen	-4.914286e+01
## Ophelia:Student-Pavarotti:Senior Citizen	-4.714286e+01
## Pavarotti:Student-Pavarotti:Senior Citizen	-4.680952e+01
## The Farewell:Student-Pavarotti:Senior Citizen	-4.571429e+01
## Echo In The Canyon:Student-The Farewell:Senior Citizen	-5.704545e+00
## Maiden:Student-The Farewell:Senior Citizen	-5.954545e+00
## Ophelia:Student-The Farewell:Senior Citizen	-3.954545e+00
## Pavarotti:Student-The Farewell:Senior Citizen	-3.621212e+00
## The Farewell:Student-The Farewell:Senior Citizen	-2.525974e+00
## Maiden:Student-Echo In The Canyon:Student	-2.500000e-01
## Ophelia:Student-Echo In The Canyon:Student	1.750000e+00
## Pavarotti:Student-Echo In The Canyon:Student	2.083333e+00
## The Farewell:Student-Echo In The Canyon:Student	3.178571e+00
## Ophelia:Student-Maiden:Student	2.000000e+00
## Pavarotti:Student-Maiden:Student	2.333333e+00
## The Farewell:Student-Maiden:Student	3.428571e+00
## Pavarotti:Student-Ophelia:Student	3.333333e-01
## The Farewell:Student-Ophelia:Student	1.428571e+00
## The Farewell:Student-Pavarotti:Student	1.095238e+00
##	lwr.ci
## Maiden:Adult-Echo In The Canyon:Adult	-22.078600
## Ophelia:Adult-Echo In The Canyon:Adult	-29.196457
## Pavarotti:Adult-Echo In The Canyon:Adult	-19.804797
## The Farewell:Adult-Echo In The Canyon:Adult	-14.785730
## Echo In The Canyon:Member-Echo In The Canyon:Adult	-41.573517

## Maiden:Member-Echo In The Canyon:Adult	-53.927946
## Ophelia:Member-Echo In The Canyon:Adult	-41.573517
## Pavarotti:Member-Echo In The Canyon:Adult	-33.752356
## The Farewell:Member-Echo In The Canyon:Adult	-37.089035
## Echo In The Canyon:Senior Citizen-Echo In The Canyon:Adult	-15.320269
## Maiden:Senior Citizen-Echo In The Canyon:Adult	-21.745267
## Ophelia:Senior Citizen-Echo In The Canyon:Adult	-27.396457
## Pavarotti:Senior Citizen-Echo In The Canyon:Adult	19.052345
## The Farewell:Senior Citizen-Echo In The Canyon:Adult	-19.541164
## Echo In The Canyon:Student-Echo In The Canyon:Adult	-34.002356
## Maiden:Student-Echo In The Canyon:Adult	-42.073517
## Ophelia:Student-Echo In The Canyon:Adult	-35.089035
## Pavarotti:Student-Echo In The Canyon:Adult	-34.755702
## The Farewell:Student-Echo In The Canyon:Adult	-22.181827
## Ophelia:Adult-Maiden:Adult	-32.377041
## Pavarotti:Adult-Maiden:Adult	-23.132727
## The Farewell:Adult-Maiden:Adult	-18.479934
## Echo In The Canyon:Member-Maiden:Adult	-44.336475
## Maiden:Member-Maiden:Adult	-56.407200
## Ophelia:Member-Maiden:Adult	-44.336475
## Pavarotti:Member-Maiden:Adult	-36.831221
## The Farewell:Member-Maiden:Adult	-40.035297
## Echo In The Canyon:Senior Citizen-Maiden:Adult	-18.703600
## Maiden:Senior Citizen-Maiden:Adult	-25.006881
## Ophelia:Senior Citizen-Maiden:Adult	-30.577041
## Pavarotti:Senior Citizen-Maiden:Adult	15.724416
## The Farewell:Senior Citizen-Maiden:Adult	-23.259952
## Echo In The Canyon:Student-Maiden:Adult	-37.081221
## Maiden:Student-Maiden:Adult	-44.836475
## Ophelia:Student-Maiden:Adult	-38.035297
## Pavarotti:Student-Maiden:Adult	-37.701964
## The Farewell:Student-Maiden:Adult	-25.888800
## Pavarotti:Adult-Ophelia:Adult	-18.613953
## The Farewell:Adult-Ophelia:Adult	-14.195269
## Echo In The Canyon:Member-Ophelia:Adult	-39.421459
## Maiden:Member-Ophelia:Adult	-51.279676
## Ophelia:Member-Ophelia:Adult	-39.421459
## Pavarotti:Member-Ophelia:Adult	-32.142668
## The Farewell:Member-Ophelia:Adult	-35.253117
## Echo In The Canyon:Senior Citizen-Ophelia:Adult	-14.221457
## Maiden:Senior Citizen-Ophelia:Adult	-20.443707
## Ophelia:Senior Citizen-Ophelia:Adult	-25.958814
## Pavarotti:Senior Citizen-Ophelia:Adult	20.243189
## The Farewell:Senior Citizen-Ophelia:Adult	-18.990306
## Echo In The Canyon:Student-Ophelia:Adult	-32.392668
## Maiden:Student-Ophelia:Adult	-39.921459
## Ophelia:Student-Ophelia:Adult	-33.253117
## Pavarotti:Student-Ophelia:Adult	-32.919784
## The Farewell:Student-Ophelia:Adult	-21.611946
## The Farewell:Adult-Pavarotti:Adult	-18.610465
## Echo In The Canyon:Member-Pavarotti:Adult	-44.976434
## Maiden:Member-Pavarotti:Adult	-57.206673
## Ophelia:Member-Pavarotti:Adult	-44.976434
## Pavarotti:Member-Pavarotti:Adult	-37.295565



## The Farewell:Member-Pavarotti:Adult	-40.573063
## Echo In The Canyon:Senior Citizen-Pavarotti:Adult	-19.001226
## Maiden:Senior Citizen-Pavarotti:Adult	-25.370822
## Ophelia:Senior Citizen-Pavarotti:Adult	-30.985382
## Pavarotti:Senior Citizen-Pavarotti:Adult	15.396663
## The Farewell:Senior Citizen-Pavarotti:Adult	-23.377422
## Echo In The Canyon:Student-Pavarotti:Adult	-37.545565
## Maiden:Student-Pavarotti:Adult	-45.476434
## Ophelia:Student-Pavarotti:Adult	-38.573063
## Pavarotti:Student-Pavarotti:Adult	-38.239730
## The Farewell:Student-Pavarotti:Adult	-26.012544
## Echo In The Canyon:Member-The Farewell:Adult	-43.000094
## Maiden:Member-The Farewell:Adult	-55.924419
## Ophelia:Member-The Farewell:Adult	-43.000094
## Pavarotti:Member-The Farewell:Adult	-34.489838
## The Farewell:Member-The Farewell:Adult	-38.124352
## Echo In The Canyon:Senior Citizen-The Farewell:Adult	-15.310730
## Maiden:Senior Citizen-The Farewell:Adult	-22.046600
## Ophelia:Senior Citizen-The Farewell:Adult	-27.895269
## Pavarotti:Senior Citizen-The Farewell:Adult	18.918106
## The Farewell:Senior Citizen-The Farewell:Adult	-18.555752
## Echo In The Canyon:Student-The Farewell:Adult	-34.739838
## Maiden:Student-The Farewell:Adult	-43.500094
## Ophelia:Student-The Farewell:Adult	-36.124352
## Pavarotti:Student-The Farewell:Adult	-35.791019
## The Farewell:Student-The Farewell:Adult	-21.234609
## Maiden:Member-Echo In The Canyon:Member	-54.254712
## Ophelia:Member-Echo In The Canyon:Member	-43.890538
## Pavarotti:Member-Echo In The Canyon:Member	-38.010321
## The Farewell:Member-Echo In The Canyon:Member	-40.566397
## Echo In The Canyon:Senior Citizen-Echo In The Canyon:Member	-21.198517
## Maiden:Senior Citizen-Echo In The Canyon:Member	-27.003141
## Ophelia:Senior Citizen-Echo In The Canyon:Member	-32.221459
## Pavarotti:Senior Citizen-Echo In The Canyon:Member	13.452138
## The Farewell:Senior Citizen-Echo In The Canyon:Member	-26.960765
## Echo In The Canyon:Student-Echo In The Canyon:Member	-38.260321
## Maiden:Student-Echo In The Canyon:Member	-44.390538
## Ophelia:Student-Echo In The Canyon:Member	-38.566397
## Pavarotti:Student-Echo In The Canyon:Member	-38.233063
## The Farewell:Student-Echo In The Canyon:Member	-29.550992
## Ophelia:Member-Maiden:Member	-53.254712
## Pavarotti:Member-Maiden:Member	-48.571114
## The Farewell:Member-Maiden:Member	-50.680428
## Echo In The Canyon:Senior Citizen-Maiden:Member	-32.552946
## Maiden:Senior Citizen-Maiden:Member	-38.073866
## Ophelia:Senior Citizen-Maiden:Member	-43.079676
## Pavarotti:Senior Citizen-Maiden:Member	2.221898
## The Farewell:Senior Citizen-Maiden:Member	-38.922420
## Echo In The Canyon:Student-Maiden:Member	-48.821114
## Maiden:Student-Maiden:Member	-53.754712
## Ophelia:Student-Maiden:Member	-48.680428
## Pavarotti:Student-Maiden:Member	-48.347095
## The Farewell:Student-Maiden:Member	-41.494827
## Pavarotti:Member-Ophelia:Member	-38.010321

## The Farewell:Member-Ophelia:Member	-40.566397
## Echo In The Canyon:Senior Citizen-Ophelia:Member	-21.198517
## Maiden:Senior Citizen-Ophelia:Member	-27.003141
## Ophelia:Senior Citizen-Ophelia:Member	-32.221459
## Pavarotti:Senior Citizen-Ophelia:Member	13.452138
## The Farewell:Senior Citizen-Ophelia:Member	-26.960765
## Echo In The Canyon:Student-Ophelia:Member	-38.260321
## Maiden:Student-Ophelia:Member	-44.390538
## Ophelia:Student-Ophelia:Member	-38.566397
## Pavarotti:Student-Ophelia:Member	-38.233063
## The Farewell:Student-Ophelia:Member	-29.550992
## The Farewell:Member-Pavarotti:Member	-34.021952
## Echo In The Canyon:Senior Citizen-Pavarotti:Member	-13.377356
## Maiden:Senior Citizen-Pavarotti:Member	-19.497887
## Ophelia:Senior Citizen-Pavarotti:Member	-24.942668
## Pavarotti:Senior Citizen-Pavarotti:Member	21.133006
## The Farewell:Senior Citizen-Pavarotti:Member	-18.402477
## Echo In The Canyon:Student-Pavarotti:Member	-31.285297
## Maiden:Student-Pavarotti:Member	-38.510321
## Ophelia:Student-Pavarotti:Member	-32.021952
## Pavarotti:Student-Pavarotti:Member	-31.688619
## The Farewell:Student-Pavarotti:Member	-21.015680
## Echo In The Canyon:Senior Citizen-The Farewell:Member	-15.714035
## Maiden:Senior Citizen-The Farewell:Member	-21.701964
## Ophelia:Senior Citizen-The Farewell:Member	-27.053117
## Pavarotti:Senior Citizen-The Farewell:Member	18.855508
## The Farewell:Senior Citizen-The Farewell:Member	-21.058214
## Echo In The Canyon:Student-The Farewell:Member	-33.271952
## Maiden:Student-The Farewell:Member	-40.066397
## Ophelia:Student-The Farewell:Member	-33.836475
## Pavarotti:Student-The Farewell:Member	-33.503141
## The Farewell:Student-The Farewell:Member	-23.661257
## Maiden:Senior Citizen-Echo In The Canyon:Senior Citizen	-28.370267
## Ophelia:Senior Citizen-Echo In The Canyon:Senior Citizen	-34.021457
## Pavarotti:Senior Citizen-Echo In The Canyon:Senior Citizen	12.427345
## The Farewell:Senior Citizen-Echo In The Canyon:Senior Citizen	-26.166164
## Echo In The Canyon:Student-Echo In The Canyon:Senior Citizen	-40.627356
## Maiden:Student-Echo In The Canyon:Senior Citizen	-48.698517
## Ophelia:Student-Echo In The Canyon:Senior Citizen	-41.714035
## Pavarotti:Student-Echo In The Canyon:Senior Citizen	-41.380702
## The Farewell:Student-Echo In The Canyon:Senior Citizen	-28.806827
## Ophelia:Senior Citizen-Maiden:Senior Citizen	-30.910374
## Pavarotti:Senior Citizen-Maiden:Senior Citizen	15.391082
## The Farewell:Senior Citizen-Maiden:Senior Citizen	-23.593286
## Echo In The Canyon:Student-Maiden:Senior Citizen	-37.414554
## Maiden:Student-Maiden:Senior Citizen	-45.169808
## Ophelia:Student-Maiden:Senior Citizen	-38.368631
## Pavarotti:Student-Maiden:Senior Citizen	-38.035297
## The Farewell:Student-Maiden:Senior Citizen	-26.222133
## Pavarotti:Senior Citizen-Ophelia:Senior Citizen	18.443189
## The Farewell:Senior Citizen-Ophelia:Senior Citizen	-20.790306
## Echo In The Canyon:Student-Ophelia:Senior Citizen	-34.192668
## Maiden:Student-Ophelia:Senior Citizen	-41.721459
## Ophelia:Student-Ophelia:Senior Citizen	-35.053117

## Pavarotti:Student-Ophelia:Senior Citizen	-34.719784
## The Farewell:Student-Ophelia:Senior Citizen	-23.411946
## The Farewell:Senior Citizen-Pavarotti:Senior Citizen	-62.234565
## Echo In The Canyon:Student-Pavarotti:Senior Citizen	-76.402708
## Maiden:Student-Pavarotti:Senior Citizen	-84.333577
## Ophelia:Student-Pavarotti:Senior Citizen	-77.430206
## Pavarotti:Student-Pavarotti:Senior Citizen	-77.096873
## The Farewell:Student-Pavarotti:Senior Citizen	-64.869687
## Echo In The Canyon:Student-The Farewell:Senior Citizen	-29.561568
## Maiden:Student-The Farewell:Senior Citizen	-38.369856
## Ophelia:Student-The Farewell:Senior Citizen	-30.967305
## Pavarotti:Student-The Farewell:Senior Citizen	-30.633971
## The Farewell:Student-The Farewell:Senior Citizen	-15.916084
## Maiden:Student-Echo In The Canyon:Student	-38.260321
## Ophelia:Student-Echo In The Canyon:Student	-31.771952
## Pavarotti:Student-Echo In The Canyon:Student	-31.438619
## The Farewell:Student-Echo In The Canyon:Student	-20.765680
## Ophelia:Student-Maiden:Student	-38.066397
## Pavarotti:Student-Maiden:Student	-37.733063
## The Farewell:Student-Maiden:Student	-29.050992
## Pavarotti:Student-Ophelia:Student	-35.503141
## The Farewell:Student-Ophelia:Student	-25.661257
## The Farewell:Student-Pavarotti:Student	-25.994590
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## Maiden:Adult-Echo In The Canyon:Adult	25.328600
## Ophelia:Adult-Echo In The Canyon:Adult	20.846457
## Pavarotti:Adult-Echo In The Canyon:Adult	25.626226
## The Farewell:Adult-Echo In The Canyon:Adult	21.935730
## Echo In The Canyon:Member-Echo In The Canyon:Adult	27.823517
## Maiden:Member-Echo In The Canyon:Adult	39.177946
## Ophelia:Member-Echo In The Canyon:Adult	27.823517
## Pavarotti:Member-Echo In The Canyon:Adult	20.002356
## The Farewell:Member-Echo In The Canyon:Adult	22.339035
## Echo In The Canyon:Senior Citizen-Echo In The Canyon:Adult	28.570269
## Maiden:Senior Citizen-Echo In The Canyon:Adult	25.661933
## Ophelia:Senior Citizen-Echo In The Canyon:Adult	22.646457
## Pavarotti:Senior Citizen-Echo In The Canyon:Adult	64.483369
## The Farewell:Senior Citizen-Echo In The Canyon:Adult	16.700255
## Echo In The Canyon:Student-Echo In The Canyon:Adult	19.752356
## Maiden:Student-Echo In The Canyon:Adult	27.323517
## Ophelia:Student-Echo In The Canyon:Adult	24.339035
## Pavarotti:Student-Echo In The Canyon:Adult	24.672368
## The Farewell:Student-Echo In The Canyon:Adult	14.288970
## Ophelia:Adult-Maiden:Adult	20.777041
## Pavarotti:Adult-Maiden:Adult	25.704156
## The Farewell:Adult-Maiden:Adult	22.379934
## Echo In The Canyon:Member-Maiden:Adult	27.336475
## Maiden:Member-Maiden:Adult	38.407200
## Ophelia:Member-Maiden:Adult	27.336475
## Pavarotti:Member-Maiden:Adult	19.831221
## The Farewell:Member-Maiden:Adult	22.035297
## Echo In The Canyon:Senior Citizen-Maiden:Adult	28.703600
## Maiden:Senior Citizen-Maiden:Adult	25.673547
## Ophelia:Senior Citizen-Maiden:Adult	22.577041

## Pavarotti:Senior Citizen-Maiden:Adult	64.561298
## The Farewell:Senior Citizen-Maiden:Adult	17.169043
## Echo In The Canyon:Student-Maiden:Adult	19.581221
## Maiden:Student-Maiden:Adult	26.836475
## Ophelia:Student-Maiden:Adult	24.035297
## Pavarotti:Student-Maiden:Adult	24.368631
## The Farewell:Student-Maiden:Adult	14.745943
## Pavarotti:Adult-Ophelia:Adult	32.785382
## The Farewell:Adult-Ophelia:Adult	29.695269
## Echo In The Canyon:Member-Ophelia:Adult	34.021459
## Maiden:Member-Ophelia:Adult	44.879676
## Ophelia:Member-Ophelia:Adult	34.021459
## Pavarotti:Member-Ophelia:Adult	26.742668
## The Farewell:Member-Ophelia:Adult	28.853117
## Echo In The Canyon:Senior Citizen-Ophelia:Adult	35.821457
## Maiden:Senior Citizen-Ophelia:Adult	32.710374
## Ophelia:Senior Citizen-Ophelia:Adult	29.558814
## Pavarotti:Senior Citizen-Ophelia:Adult	71.642525
## The Farewell:Senior Citizen-Ophelia:Adult	24.499397
## Echo In The Canyon:Student-Ophelia:Adult	26.492668
## Maiden:Student-Ophelia:Adult	33.521459
## Ophelia:Student-Ophelia:Adult	30.853117
## Pavarotti:Student-Ophelia:Adult	31.186451
## The Farewell:Student-Ophelia:Adult	22.069089
## The Farewell:Adult-Pavarotti:Adult	19.939037
## Echo In The Canyon:Member-Pavarotti:Adult	25.405005
## Maiden:Member-Pavarotti:Adult	36.635245
## Ophelia:Member-Pavarotti:Adult	25.405005
## Pavarotti:Member-Pavarotti:Adult	17.724137
## The Farewell:Member-Pavarotti:Adult	20.001635
## Echo In The Canyon:Senior Citizen-Pavarotti:Adult	26.429797
## Maiden:Senior Citizen-Pavarotti:Adult	23.466060
## Ophelia:Senior Citizen-Pavarotti:Adult	20.413953
## Pavarotti:Senior Citizen-Pavarotti:Adult	62.317622
## The Farewell:Senior Citizen-Pavarotti:Adult	14.715084
## Echo In The Canyon:Student-Pavarotti:Adult	17.474137
## Maiden:Student-Pavarotti:Adult	24.905005
## Ophelia:Student-Pavarotti:Adult	22.001635
## Pavarotti:Student-Pavarotti:Adult	22.334968
## The Farewell:Student-Pavarotti:Adult	12.298259
## Echo In The Canyon:Member-The Farewell:Adult	22.100094
## Maiden:Member-The Farewell:Adult	34.024419
## Ophelia:Member-The Farewell:Adult	22.100094
## Pavarotti:Member-The Farewell:Adult	13.589838
## The Farewell:Member-The Farewell:Adult	16.224352
## Echo In The Canyon:Senior Citizen-The Farewell:Adult	21.410730
## Maiden:Senior Citizen-The Farewell:Adult	18.813267
## Ophelia:Senior Citizen-The Farewell:Adult	15.995269
## Pavarotti:Senior Citizen-The Farewell:Adult	57.467608
## The Farewell:Senior Citizen-The Farewell:Adult	8.564843
## Echo In The Canyon:Student-The Farewell:Adult	13.339838
## Maiden:Student-The Farewell:Adult	21.600094
## Ophelia:Student-The Farewell:Adult	18.224352
## Pavarotti:Student-The Farewell:Adult	18.557686

## The Farewell:Student-The Farewell:Adult	6.191752
## Maiden:Member-Echo In The Canyon:Member	53.254712
## Ophelia:Member-Echo In The Canyon:Member	43.890538
## Pavarotti:Member-Echo In The Canyon:Member	38.010321
## The Farewell:Member-Echo In The Canyon:Member	39.566397
## Echo In The Canyon:Senior Citizen-Echo In The Canyon:Member	48.198517
## Maiden:Senior Citizen-Echo In The Canyon:Member	44.669808
## Ophelia:Senior Citizen-Echo In The Canyon:Member	41.221459
## Pavarotti:Senior Citizen-Echo In The Canyon:Member	83.833577
## The Farewell:Senior Citizen-Echo In The Canyon:Member	37.869856
## Echo In The Canyon:Student-Echo In The Canyon:Member	37.760321
## Maiden:Student-Echo In The Canyon:Member	43.390538
## Ophelia:Student-Echo In The Canyon:Member	41.566397
## Pavarotti:Student-Echo In The Canyon:Member	41.899730
## The Farewell:Student-Echo In The Canyon:Member	35.408135
## Ophelia:Member-Maiden:Member	54.254712
## Pavarotti:Member-Maiden:Member	49.571114
## The Farewell:Member-Maiden:Member	50.680428
## Echo In The Canyon:Senior Citizen-Maiden:Member	60.552946
## Maiden:Senior Citizen-Maiden:Member	56.740533
## Ophelia:Senior Citizen-Maiden:Member	53.079676
## Pavarotti:Senior Citizen-Maiden:Member	96.063816
## The Farewell:Senior Citizen-Maiden:Member	50.831511
## Echo In The Canyon:Student-Maiden:Member	49.321114
## Maiden:Student-Maiden:Member	53.754712
## Ophelia:Student-Maiden:Member	52.680428
## Pavarotti:Student-Maiden:Member	53.013762
## The Farewell:Student-Maiden:Member	48.351970
## Pavarotti:Member-Ophelia:Member	38.010321
## The Farewell:Member-Ophelia:Member	39.566397
## Echo In The Canyon:Senior Citizen-Ophelia:Member	48.198517
## Maiden:Senior Citizen-Ophelia:Member	44.669808
## Ophelia:Senior Citizen-Ophelia:Member	41.221459
## Pavarotti:Senior Citizen-Ophelia:Member	83.833577
## The Farewell:Senior Citizen-Ophelia:Member	37.869856
## Echo In The Canyon:Student-Ophelia:Member	37.760321
## Maiden:Student-Ophelia:Member	43.390538
## Ophelia:Student-Ophelia:Member	41.566397
## Pavarotti:Student-Ophelia:Member	41.899730
## The Farewell:Student-Ophelia:Member	35.408135
## The Farewell:Member-Pavarotti:Member	33.021952
## Echo In The Canyon:Senior Citizen-Pavarotti:Member	40.377356
## Maiden:Senior Citizen-Pavarotti:Member	37.164554
## Ophelia:Senior Citizen-Pavarotti:Member	33.942668
## Pavarotti:Senior Citizen-Pavarotti:Member	76.152708
## The Farewell:Senior Citizen-Pavarotti:Member	29.311568
## Echo In The Canyon:Student-Pavarotti:Member	30.785297
## Maiden:Student-Pavarotti:Member	37.510321
## Ophelia:Student-Pavarotti:Member	35.021952
## Pavarotti:Student-Pavarotti:Member	35.355286
## The Farewell:Student-Pavarotti:Member	26.872823
## Echo In The Canyon:Senior Citizen-The Farewell:Member	43.714035
## Maiden:Senior Citizen-The Farewell:Member	40.368631
## Ophelia:Senior Citizen-The Farewell:Member	37.053117

## Pavarotti:Senior Citizen-The Farewell:Member	79.430206
## The Farewell:Senior Citizen-The Farewell:Member	32.967305
## Echo In The Canyon:Student-The Farewell:Member	33.771952
## Maiden:Student-The Farewell:Member	40.066397
## Ophelia:Student-The Farewell:Member	37.836475
## Pavarotti:Student-The Farewell:Member	38.169808
## The Farewell:Student-The Farewell:Member	30.518400
## Maiden:Senior Citizen-Echo In The Canyon:Senior Citizen	19.036933
## Ophelia:Senior Citizen-Echo In The Canyon:Senior Citizen	16.021457
## Pavarotti:Senior Citizen-Echo In The Canyon:Senior Citizen	57.858369
## The Farewell:Senior Citizen-Echo In The Canyon:Senior Citizen	10.075255
## Echo In The Canyon:Student-Echo In The Canyon:Senior Citizen	13.127356
## Maiden:Student-Echo In The Canyon:Senior Citizen	20.698517
## Ophelia:Student-Echo In The Canyon:Senior Citizen	17.714035
## Pavarotti:Student-Echo In The Canyon:Senior Citizen	18.047368
## The Farewell:Student-Echo In The Canyon:Senior Citizen	7.663970
## Ophelia:Senior Citizen-Maiden:Senior Citizen	22.243707
## Pavarotti:Senior Citizen-Maiden:Senior Citizen	64.227965
## The Farewell:Senior Citizen-Maiden:Senior Citizen	16.835710
## Echo In The Canyon:Student-Maiden:Senior Citizen	19.247887
## Maiden:Student-Maiden:Senior Citizen	26.503141
## Ophelia:Student-Maiden:Senior Citizen	23.701964
## Pavarotti:Student-Maiden:Senior Citizen	24.035297
## The Farewell:Student-Maiden:Senior Citizen	14.412609
## Pavarotti:Senior Citizen-Ophelia:Senior Citizen	69.842525
## The Farewell:Senior Citizen-Ophelia:Senior Citizen	22.699397
## Echo In The Canyon:Student-Ophelia:Senior Citizen	24.692668
## Maiden:Student-Ophelia:Senior Citizen	31.721459
## Ophelia:Student-Ophelia:Senior Citizen	29.053117
## Pavarotti:Student-Ophelia:Senior Citizen	29.386451
## The Farewell:Student-Ophelia:Senior Citizen	20.269089
## The Farewell:Senior Citizen-Pavarotti:Senior Citizen	-24.142059
## Echo In The Canyon:Student-Pavarotti:Senior Citizen	-21.383006
## Maiden:Student-Pavarotti:Senior Citizen	-13.952138
## Ophelia:Student-Pavarotti:Senior Citizen	-16.855508
## Pavarotti:Student-Pavarotti:Senior Citizen	-16.522175
## The Farewell:Student-Pavarotti:Senior Citizen	-26.558884
## Echo In The Canyon:Student-The Farewell:Senior Citizen	18.152477
## Maiden:Student-The Farewell:Senior Citizen	26.460765
## Ophelia:Student-The Farewell:Senior Citizen	23.058214
## Pavarotti:Student-The Farewell:Senior Citizen	23.391547
## The Farewell:Student-The Farewell:Senior Citizen	10.864136
## Maiden:Student-Echo In The Canyon:Student	37.760321
## Ophelia:Student-Echo In The Canyon:Student	35.271952
## Pavarotti:Student-Echo In The Canyon:Student	35.605286
## The Farewell:Student-Echo In The Canyon:Student	27.122823
## Ophelia:Student-Maiden:Student	42.066397
## Pavarotti:Student-Maiden:Student	42.399730
## The Farewell:Student-Maiden:Student	35.908135
## Pavarotti:Student-Ophelia:Student	36.169808
## The Farewell:Student-Ophelia:Student	28.518400
## The Farewell:Student-Pavarotti:Student	28.185067
##	pval
## Maiden:Adult-Echo In The Canyon:Adult	1.0000

## Ophelia:Adult-Echo In The Canyon:Adult	1.0000
## Pavarotti:Adult-Echo In The Canyon:Adult	1.0000
## The Farewell:Adult-Echo In The Canyon:Adult	1.0000
## Echo In The Canyon:Member-Echo In The Canyon:Adult	1.0000
## Maiden:Member-Echo In The Canyon:Adult	1.0000
## Ophelia:Member-Echo In The Canyon:Adult	1.0000
## Pavarotti:Member-Echo In The Canyon:Adult	1.0000
## The Farewell:Member-Echo In The Canyon:Adult	1.0000
## Echo In The Canyon:Senior Citizen-Echo In The Canyon:Adult	1.0000
## Maiden:Senior Citizen-Echo In The Canyon:Adult	1.0000
## Ophelia:Senior Citizen-Echo In The Canyon:Adult	1.0000
## Pavarotti:Senior Citizen-Echo In The Canyon:Adult	9.3e-10 ***
## The Farewell:Senior Citizen-Echo In The Canyon:Adult	1.0000
## Echo In The Canyon:Student-Echo In The Canyon:Adult	1.0000
## Maiden:Student-Echo In The Canyon:Adult	1.0000
## Ophelia:Student-Echo In The Canyon:Adult	1.0000
## Pavarotti:Student-Echo In The Canyon:Adult	1.0000
## The Farewell:Student-Echo In The Canyon:Adult	1.0000
## Ophelia:Adult-Maiden:Adult	1.0000
## Pavarotti:Adult-Maiden:Adult	1.0000
## The Farewell:Adult-Maiden:Adult	1.0000
## Echo In The Canyon:Member-Maiden:Adult	1.0000
## Maiden:Member-Maiden:Adult	1.0000
## Ophelia:Member-Maiden:Adult	1.0000
## Pavarotti:Member-Maiden:Adult	1.0000
## The Farewell:Member-Maiden:Adult	1.0000
## Echo In The Canyon:Senior Citizen-Maiden:Adult	1.0000
## Maiden:Senior Citizen-Maiden:Adult	1.0000
## Ophelia:Senior Citizen-Maiden:Adult	1.0000
## Pavarotti:Senior Citizen-Maiden:Adult	1.3e-07 ***
## The Farewell:Senior Citizen-Maiden:Adult	1.0000
## Echo In The Canyon:Student-Maiden:Adult	1.0000
## Maiden:Student-Maiden:Adult	1.0000
## Ophelia:Student-Maiden:Adult	1.0000
## Pavarotti:Student-Maiden:Adult	1.0000
## The Farewell:Student-Maiden:Adult	1.0000
## Pavarotti:Adult-Ophelia:Adult	1.0000
## The Farewell:Adult-Ophelia:Adult	0.9999
## Echo In The Canyon:Member-Ophelia:Adult	1.0000
## Maiden:Member-Ophelia:Adult	1.0000
## Ophelia:Member-Ophelia:Adult	1.0000
## Pavarotti:Member-Ophelia:Adult	1.0000
## The Farewell:Member-Ophelia:Adult	1.0000
## Echo In The Canyon:Senior Citizen-Ophelia:Adult	0.9974
## Maiden:Senior Citizen-Ophelia:Adult	1.0000
## Ophelia:Senior Citizen-Ophelia:Adult	1.0000
## Pavarotti:Senior Citizen-Ophelia:Adult	3.5e-09 ***
## The Farewell:Senior Citizen-Ophelia:Adult	1.0000
## Echo In The Canyon:Student-Ophelia:Adult	1.0000
## Maiden:Student-Ophelia:Adult	1.0000
## Ophelia:Student-Ophelia:Adult	1.0000
## Pavarotti:Student-Ophelia:Adult	1.0000
## The Farewell:Student-Ophelia:Adult	1.0000
## The Farewell:Adult-Pavarotti:Adult	1.0000

## Echo In The Canyon:Member-Pavarotti:Adult	1.0000
## Maiden:Member-Pavarotti:Adult	1.0000
## Ophelia:Member-Pavarotti:Adult	1.0000
## Pavarotti:Member-Pavarotti:Adult	0.9998
## The Farewell:Member-Pavarotti:Adult	0.9999
## Echo In The Canyon:Senior Citizen-Pavarotti:Adult	1.0000
## Maiden:Senior Citizen-Pavarotti:Adult	1.0000
## Ophelia:Senior Citizen-Pavarotti:Adult	1.0000
## Pavarotti:Senior Citizen-Pavarotti:Adult	9.7e-08 ***
## The Farewell:Senior Citizen-Pavarotti:Adult	1.0000
## Echo In The Canyon:Student-Pavarotti:Adult	0.9998
## Maiden:Student-Pavarotti:Adult	1.0000
## Ophelia:Student-Pavarotti:Adult	1.0000
## Pavarotti:Student-Pavarotti:Adult	1.0000
## The Farewell:Student-Pavarotti:Adult	0.9998
## Echo In The Canyon:Member-The Farewell:Adult	1.0000
## Maiden:Member-The Farewell:Adult	1.0000
## Ophelia:Member-The Farewell:Adult	1.0000
## Pavarotti:Member-The Farewell:Adult	0.9972
## The Farewell:Member-The Farewell:Adult	0.9990
## Echo In The Canyon:Senior Citizen-The Farewell:Adult	1.0000
## Maiden:Senior Citizen-The Farewell:Adult	1.0000
## Ophelia:Senior Citizen-The Farewell:Adult	1.0000
## Pavarotti:Senior Citizen-The Farewell:Adult	2.1e-11 ***
## The Farewell:Senior Citizen-The Farewell:Adult	0.9997
## Echo In The Canyon:Student-The Farewell:Adult	0.9962
## Maiden:Student-The Farewell:Adult	0.9999
## Ophelia:Student-The Farewell:Adult	0.9999
## Pavarotti:Student-The Farewell:Adult	1.0000
## The Farewell:Student-The Farewell:Adult	0.9565
## Maiden:Member-Echo In The Canyon:Member	1.0000
## Ophelia:Member-Echo In The Canyon:Member	1.0000
## Pavarotti:Member-Echo In The Canyon:Member	1.0000
## The Farewell:Member-Echo In The Canyon:Member	1.0000
## Echo In The Canyon:Senior Citizen-Echo In The Canyon:Member	0.9994
## Maiden:Senior Citizen-Echo In The Canyon:Member	1.0000
## Ophelia:Senior Citizen-Echo In The Canyon:Member	1.0000
## Pavarotti:Senior Citizen-Echo In The Canyon:Member	5.7e-05 ***
## The Farewell:Senior Citizen-Echo In The Canyon:Member	1.0000
## Echo In The Canyon:Student-Echo In The Canyon:Member	1.0000
## Maiden:Student-Echo In The Canyon:Member	1.0000
## Ophelia:Student-Echo In The Canyon:Member	1.0000
## Pavarotti:Student-Echo In The Canyon:Member	1.0000
## The Farewell:Student-Echo In The Canyon:Member	1.0000
## Ophelia:Member-Maiden:Member	1.0000
## Pavarotti:Member-Maiden:Member	1.0000
## The Farewell:Member-Maiden:Member	1.0000
## Echo In The Canyon:Senior Citizen-Maiden:Member	1.0000
## Maiden:Senior Citizen-Maiden:Member	1.0000
## Ophelia:Senior Citizen-Maiden:Member	1.0000
## Pavarotti:Senior Citizen-Maiden:Member	0.0259 *
## The Farewell:Senior Citizen-Maiden:Member	1.0000
## Echo In The Canyon:Student-Maiden:Member	1.0000
## Maiden:Student-Maiden:Member	1.0000



## Ophelia:Student-Maiden:Member	1.0000	
## Pavarotti:Student-Maiden:Member	1.0000	
## The Farewell:Student-Maiden:Member	1.0000	
## Pavarotti:Member-Ophelia:Member	1.0000	
## The Farewell:Member-Ophelia:Member	1.0000	
## Echo In The Canyon:Senior Citizen-Ophelia:Member	0.9994	
## Maiden:Senior Citizen-Ophelia:Member	1.0000	
## Ophelia:Senior Citizen-Ophelia:Member	1.0000	
## Pavarotti:Senior Citizen-Ophelia:Member	5.7e-05	***
## The Farewell:Senior Citizen-Ophelia:Member	1.0000	
## Echo In The Canyon:Student-Ophelia:Member	1.0000	
## Maiden:Student-Ophelia:Member	1.0000	
## Ophelia:Student-Ophelia:Member	1.0000	
## Pavarotti:Student-Ophelia:Member	1.0000	
## The Farewell:Student-Ophelia:Member	1.0000	
## The Farewell:Member-Pavarotti:Member	1.0000	
## Echo In The Canyon:Senior Citizen-Pavarotti:Member	0.9832	
## Maiden:Senior Citizen-Pavarotti:Member	1.0000	
## Ophelia:Senior Citizen-Pavarotti:Member	1.0000	
## Pavarotti:Senior Citizen-Pavarotti:Member	5.8e-09	***
## The Farewell:Senior Citizen-Pavarotti:Member	1.0000	
## Echo In The Canyon:Student-Pavarotti:Member	1.0000	
## Maiden:Student-Pavarotti:Member	1.0000	
## Ophelia:Student-Pavarotti:Member	1.0000	
## Pavarotti:Student-Pavarotti:Member	1.0000	
## The Farewell:Student-Pavarotti:Member	1.0000	
## Echo In The Canyon:Senior Citizen-The Farewell:Member	0.9922	
## Maiden:Senior Citizen-The Farewell:Member	1.0000	
## Ophelia:Senior Citizen-The Farewell:Member	1.0000	
## Pavarotti:Senior Citizen-The Farewell:Member	2.2e-07	***
## The Farewell:Senior Citizen-The Farewell:Member	1.0000	
## Echo In The Canyon:Student-The Farewell:Member	1.0000	
## Maiden:Student-The Farewell:Member	1.0000	
## Ophelia:Student-The Farewell:Member	1.0000	
## Pavarotti:Student-The Farewell:Member	1.0000	
## The Farewell:Student-The Farewell:Member	1.0000	
## Maiden:Senior Citizen-Echo In The Canyon:Senior Citizen	1.0000	
## Ophelia:Senior Citizen-Echo In The Canyon:Senior Citizen	0.9998	
## Pavarotti:Senior Citizen-Echo In The Canyon:Senior Citizen	1.4e-06	***
## The Farewell:Senior Citizen-Echo In The Canyon:Senior Citizen	0.9963	
## Echo In The Canyon:Student-Echo In The Canyon:Senior Citizen	0.9794	
## Maiden:Student-Echo In The Canyon:Senior Citizen	0.9990	
## Ophelia:Student-Echo In The Canyon:Senior Citizen	0.9990	
## Pavarotti:Student-Echo In The Canyon:Senior Citizen	0.9993	
## The Farewell:Student-Echo In The Canyon:Senior Citizen	0.9253	
## Ophelia:Senior Citizen-Maiden:Senior Citizen	1.0000	
## Pavarotti:Senior Citizen-Maiden:Senior Citizen	1.8e-07	***
## The Farewell:Senior Citizen-Maiden:Senior Citizen	1.0000	
## Echo In The Canyon:Student-Maiden:Senior Citizen	1.0000	
## Maiden:Student-Maiden:Senior Citizen	1.0000	
## Ophelia:Student-Maiden:Senior Citizen	1.0000	
## Pavarotti:Student-Maiden:Senior Citizen	1.0000	
## The Farewell:Student-Maiden:Senior Citizen	1.0000	
## Pavarotti:Senior Citizen-Ophelia:Senior Citizen	2.1e-08	***

```

## The Farewell:Senior Citizen-Ophelia:Senior Citizen      1.0000
## Echo In The Canyon:Student-Ophelia:Senior Citizen      1.0000
## Maiden:Student-Ophelia:Senior Citizen                  1.0000
## Ophelia:Student-Ophelia:Senior Citizen                 1.0000
## Pavarotti:Student-Ophelia:Senior Citizen                1.0000
## The Farewell:Student-Ophelia:Senior Citizen             1.0000
## The Farewell:Senior Citizen-Pavarotti:Senior Citizen    9.3e-15 ***
## Echo In The Canyon:Student-Pavarotti:Senior Citizen     4.6e-09 ***
## Maiden:Student-Pavarotti:Senior Citizen                 4.2e-05 ***
## Ophelia:Student-Pavarotti:Senior Citizen                1.1e-06 ***
## Pavarotti:Student-Pavarotti:Senior Citizen              1.4e-06 ***
## The Farewell:Student-Pavarotti:Senior Citizen           3.6e-16 ***
## Echo In The Canyon:Student-The Farewell:Senior Citizen  1.0000
## Maiden:Student-The Farewell:Senior Citizen              1.0000
## Ophelia:Student-The Farewell:Senior Citizen             1.0000
## Pavarotti:Student-The Farewell:Senior Citizen           1.0000
## The Farewell:Student-The Farewell:Senior Citizen        1.0000
## Maiden:Student-Echo In The Canyon:Student              1.0000
## Ophelia:Student-Echo In The Canyon:Student             1.0000
## Pavarotti:Student-Echo In The Canyon:Student           1.0000
## The Farewell:Student-Echo In The Canyon:Student         1.0000
## Ophelia:Student-Maiden:Student                          1.0000
## Pavarotti:Student-Maiden:Student                        1.0000
## The Farewell:Student-Maiden:Student                     1.0000
## Pavarotti:Student-Ophelia:Student                       1.0000
## The Farewell:Student-Ophelia:Student                    1.0000
## The Farewell:Student-Pavarotti:Student                  1.0000
##
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```

From the Scheffe family CIs shown in the table, “The Farewell:Student-Pavarotti:Senior Citizen” with a p-value of 3.6e-16, “The Farewell:Senior Citizen-Pavarotti:Senior Citizen” with 9.3e-15, “Pavarotti:Senior Citizen-The Farewell:Adult” with 2.1e-11, “Pavarotti:Senior Citizen-Echo In The Canyon:Adult” with 9.3e-10, “Pavarotti:Senior Citizen-Ophelia:Adult” with 3.5e-09, “Echo In The Canyon:Student-Pavarotti:Senior Citizen” with 4.6e-09, “Pavarotti:Senior Citizen-Pavarotti:Member” with 5.8e-09, “Pavarotti:Senior Citizen-Pavarotti:Adult” with 9.7e-08... to Pavarotti:Senior Citizen-Maiden:Member with 0.0259.

Based on this output, by looking at the p-values, we can say that the highest quantity given the data set and background information is event “Pavarotti” with ticket type of “Senior Citizen”, the second highest is event Maiden of ticket type “Member” while the lowest quantity is event “The Farewell” with ticket type “Student”.

\*Further investigations are shown in the presentation.