

**CIA -1**

**MCA 132**

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*Q. Carry out the suitable Statistical Analyses for the data set provided and give your conclusion.*

*Write the :*

*a. Introduction.*

*b. Objective of the study.*

*c. Analyses.*

*d. Conclusion*

### **(A) INTRODUCTION:**

For the given set of the data, the total 16588 data. We need to find the missing values by using `data.isnull().sum()`, we got to know that the column has 271 missing values.

Along with that we got to know that the publisher has 58 values that are missing, hence 58 missing values.

### **(B) OBJECTIVES:**

To validate or fill all the null values that are present in the year and publisher column.

A. WHICH REGION HAS PERFORMED THE BEST IN TERMS OF SALES.

osoft, sony, intendo.

### **(C) ANALYSIS:**

the missing values in the year and publisher column, we will use-

```
To tredata["Year"].fillna(data["Year"].quantile(0.50),inplace = True)
data["Publisher"].dropna(inplace = True)
```

```
x=(data['NA_Sales'].mean()*1000000)
y=(data['EU_Sales'].mean()*1000000)
z=(data['JP_Sales'].mean()*1000000)
q=(data['Other_Sales'].mean()*1000000)
p=(data['Global_Sales'].mean()*1000000)
```

And

```
print("The average sales in North America =", (f"${x:,.3f}")) #comma separated values till 3 decimal place
and $ sign
```

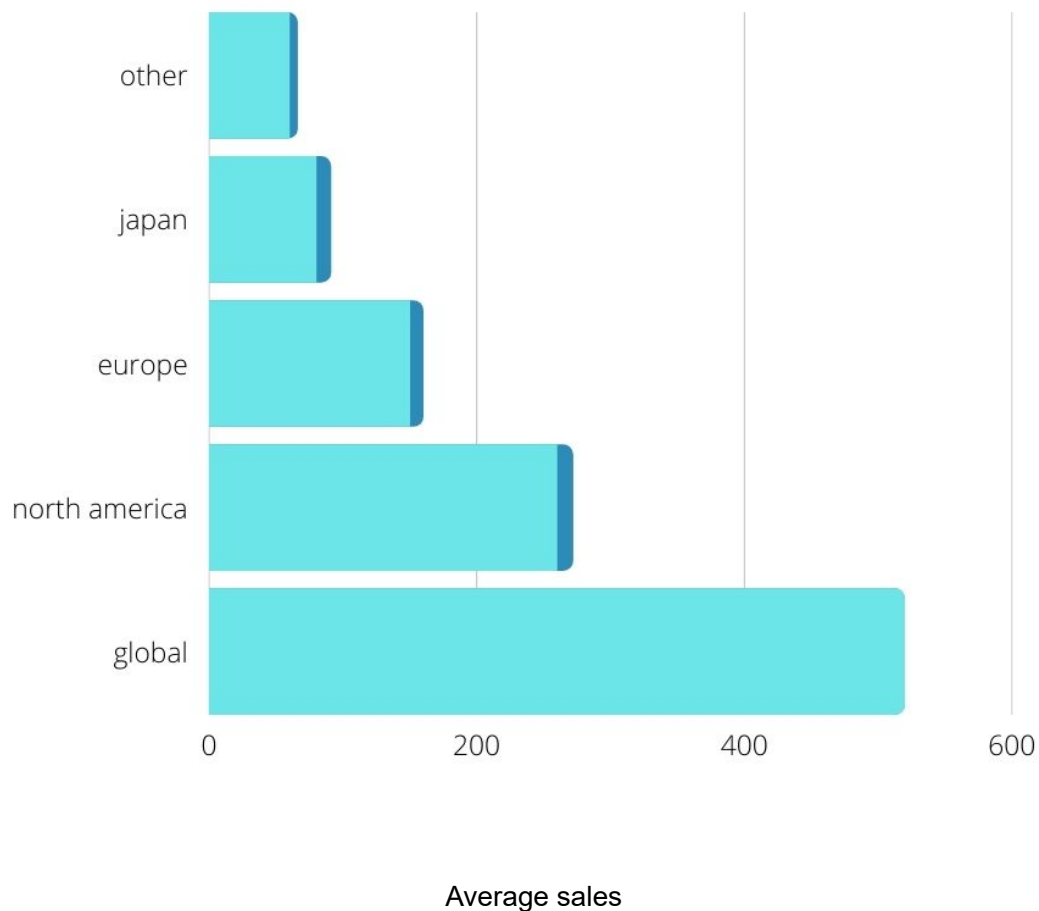
```
print("The average sales in Europe =",(f"${y:,.3f}"))
```

```
print("The average sales in Japan =",(f"${z:,.3f}"))
```

```
print("The average sales in other regions =",(f"${q:,.3f}"))
```

```
print("The average sales globally =",(f"${p:,.3f}"))
```

Region with highest sales on an average:



It is very much clear from the above given chart that which region has had the highest number of sales if we are talking about the video games.. North America has the highest average sales.

Aslo, by using the bar graph we can answer which country sells the most video games in the world. Any region that has out-performed global average sales?

The answer is No. There is no region that has out-performed the global average sales. The average global sales is \$537,440.656 million.

## CONCLUSION-

We can conclude that north america is the top region has the highest average sales of \$264,667.430.