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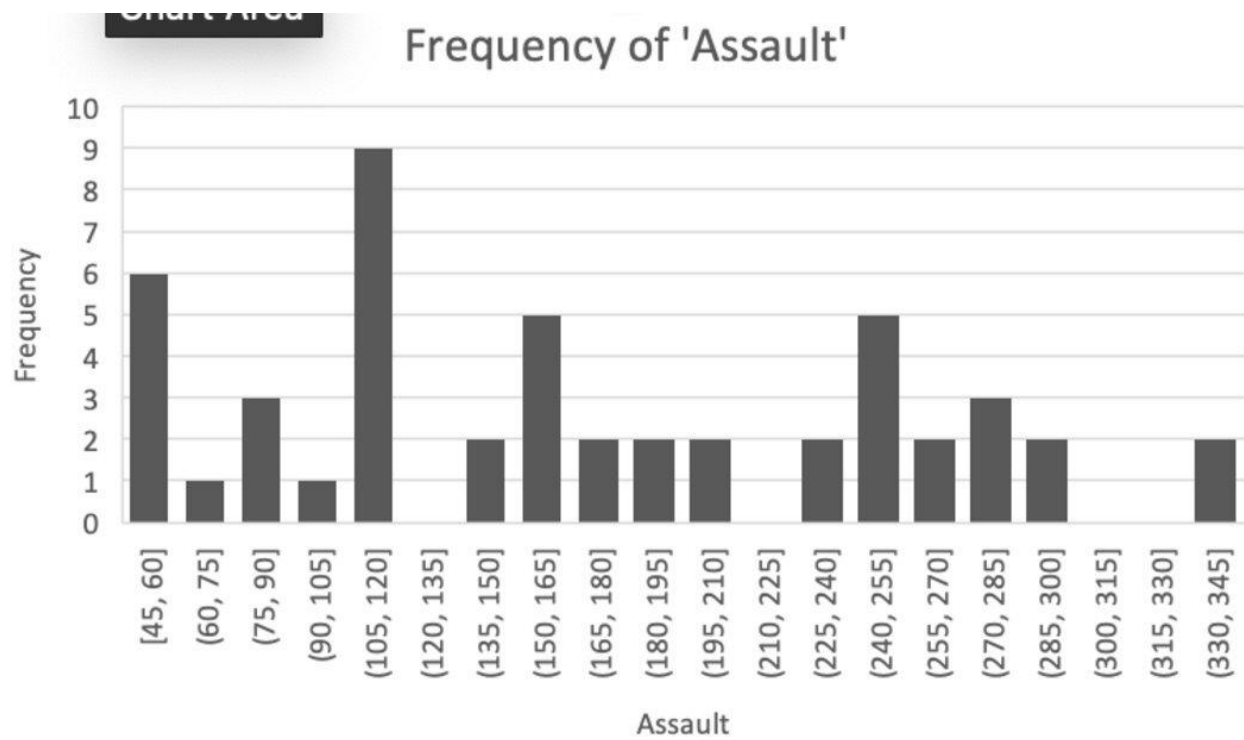
GitHub: <https://github.com/AbdullahAlshamrani0/IDS>

Problem 1

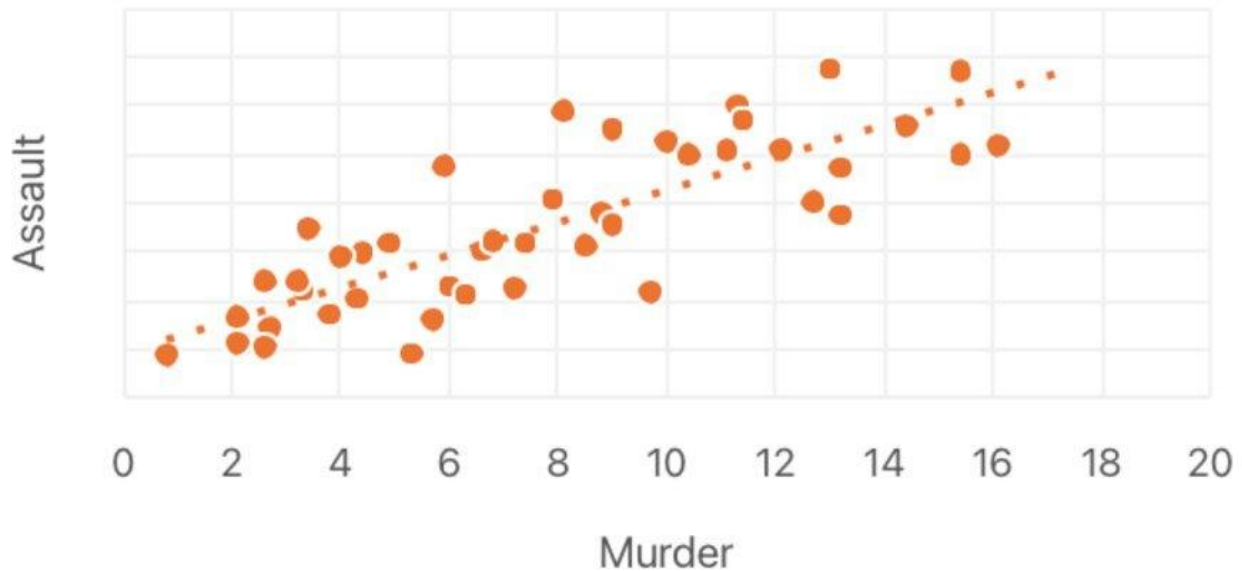
Missing Value in line 11 (Georgia)

Average of murders in all 50 US States is: 7

Average of Assaults in all 50 US States is: 170



Field: **Murder** and Field: **Assault** appear highly correlated.



A. MySQL:

Setting an average value as a constant value for the missing values: 196

SET SQL_SAFE_UPDATES = 0;

B. Use SQL to fill in the missing values in each column using the medians.

```
select state, murder, format(avg(assault), 2)
from USArrest
group by state
order by avg(murder) desc;
```

```
Update USArrests
set assault = 169
```

where (assault = 0);

order by avg(murder) desc;

C. 1 Answer the following queries in SQL:

**select distinct(state)
from USArrests
order by state, murder, assault;**

C2. -- Which years have the lowest and highest infant mortality years, respectively?

**select min(murder), max(murder), AVG(murder)
from USArrests;**

**MIN: 0
MAX: 17
AVG: 7.5**

-- Which state has the maximum murder rate?

17.4

-- List of states in ascending order of urban population percentages.

-- How many states have higher murder rates than Arizona? List those states.

21 states

Problem 2:

Excel:

A.

1994 is missing "Neonatal mortality rate"

1997 is missing "under-five mortality rate"

2002 is missing "infant mortality rate"

2004 is missing "Neonatal mortality rate"

2005 is missing "under-five mortality rate"

2007 is missing "infant mortality rate"

2010 is missing "under-five mortality rate"

2014 is missing "infant mortality rate"

I am thinking I can replace missing values by the average of each column.

B.

