

AbuthurayaAmanny-DA310-Assignment-08.pdf

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1. Look at the murders data set by using library(dslabs) data(murders).

```
{r} library(dslabs) #this library has a bunch of datasets, including murders data(murders)
# to set the dataset View(murders) # viewing the murders datasets
```

2. Calculate the murder rate using total / population * 100,000

```
{r} murder_rate = (murders$total / murders$population) *100000 print(murder_rate)
```

3. Check if the murder__rate is less than 0.71

```
{r} for (loc in murder_rate) { if (loc < 0.71) { print("The murder rate is less
than 0.71") } else { print("The murder rate is not less than 0.71") } }
```

4. Define a function to check the average value of the total. CAN-NOT use mean().

```
“{r} avg_total = function(x) { s= sum(murder$total) n = length(murder$total) s/n }
avg_total(x)
```

5. Write an if-else statement to check if the first value of abb is AK. If so return "YES", if not, r

```
```{r}
if (murders$abb[1] == "AK")
{
 print("Yes")
}else {
 print ("No")
}
```

## 6. Write a for-loop statement to display all abb value. Tips: check the length of abb at first and then use the length to define the i in for loop.

```
“{r} length(murders$abb) count = 0
```

```
for (n in murders$abb) { if (count<= 51){ print(n) } else { count= count+ 1} } ““
```