R Series Workshop 1

My First Date with Quarto

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Getting Started

Let us load the necessary R packages in RStudio.

```
pacman::p_load(tidyverse,knitr)
```

Importing Data

Next, I am going to import Exam_data.csv by using read_csv() of readr package.

```
exam_data <- read_csv("data/Exam_data.csv", show_col_types=FALSE)
```

Displaying Table

Let's view the data as a table. sidenote to self: without head() - will show full table with head() - show 6 with head() and indicate n=10 - show 10

```
kable(head(exam_data,n=10))
```

ID	CLASS	GENDER	RACE	ENGLISH	MATHS	SCIENCE
Student321	3I	Male	Malay	21	9	15
Student305	3I	Female	Malay	24	22	16
Student289	3H	Male	Chinese	26	16	16
Student227	3F	Male	Chinese	27	77	31
Student318	3I	Male	Malay	27	11	25
Student306	3I	Female	Malay	31	16	16
Student313	3I	Male	Chinese	31	21	25
Student316	3I	Male	Malay	31	18	27
Student312	3I	Male	Malay	33	19	15
Student297	3H	Male	Indian	34	49	37

Creating Statistical Graphics

Now, let us plot a bar chart showing the distribution of students by gender.

implementation below only available in html

The code (eval false means show code, no graph)

```
ggplot(data = exam_data,
       aes(x = GENDER))+
  geom_bar()
```

The graphic (echo false means show graph, no code)