

Tecnológico Nacional de México  
Instituto Tecnológico de Tijuana  
Ingeniería en Informática  
Materia: Minería de datos  
Unidad: 1  
Tema : Práctica 1



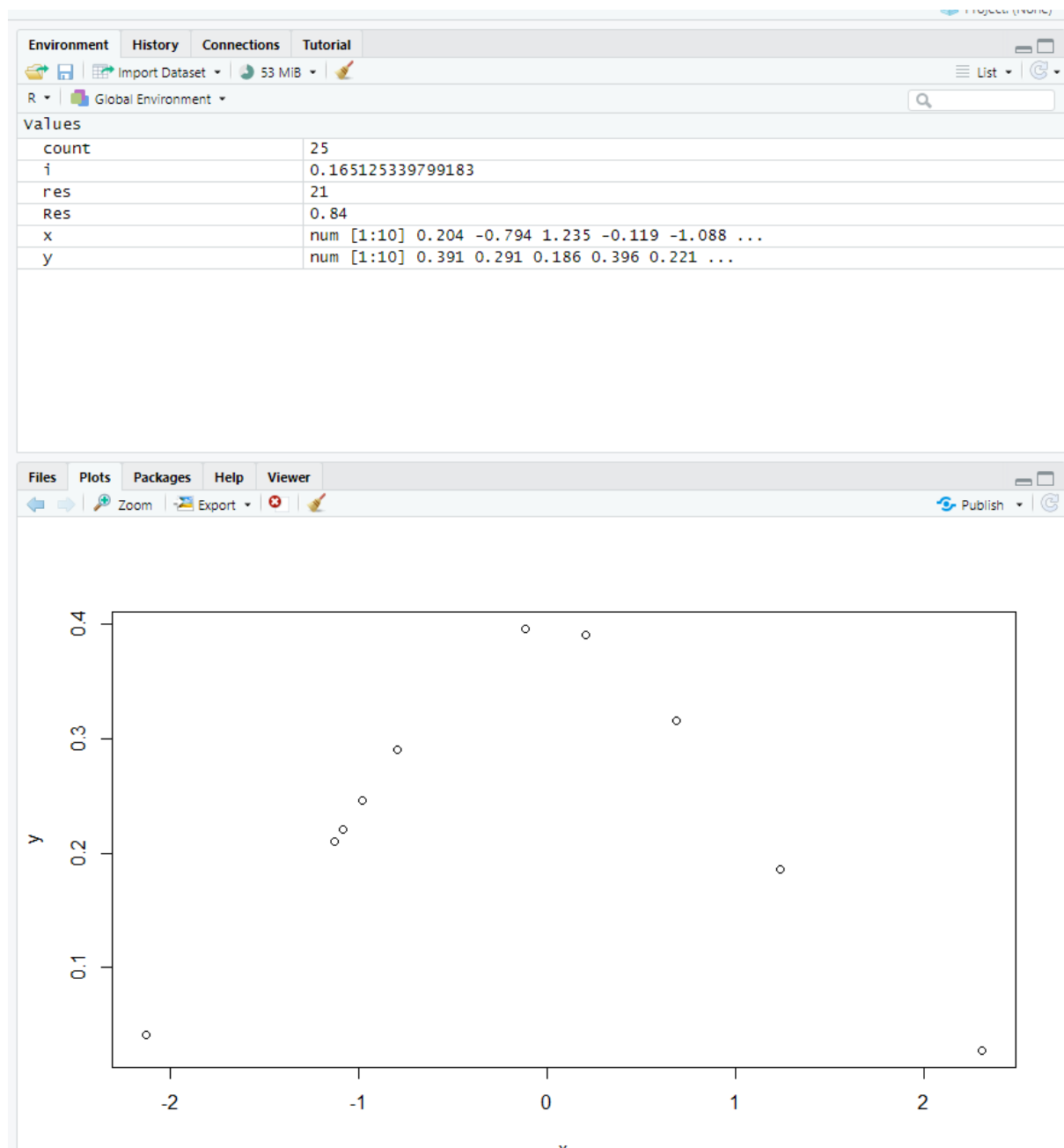
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```

> x<-rnorm(10)
> y<-dnorm(x,mean = 0, sd=1)
> plot(x,y)
>
> count<-0
> res <-0
>
> for (i in rnorm(25))
+ {
+   count<- count +1
+   print(count)
+   if(i<=1 && i>=-1){
+     print(i)
+     print("it s between -1 and 1")
+     res<-res+1
+   }
+   else
+   {
+     print(i)
+     print("Out of range")
+   }
+ }
[1] 1
[1] 1.339283
[1] "Out of range"
[1] 2
[1] 0.7785383
[1] "it s between -1 and 1"
[1] 3
[1] -0.1194549
[1] "it s between -1 and 1"
[1] 4
[1] -1.155494
[1] "Out of range"
[1] 5
[1] -0.6643419
[1] "it s between -1 and 1"
[1] 6
[1] 0.01578157
[1] "it s between -1 and 1"
[1] 7
[1] -1.718097
[1] "Out of range"
[1] 8
[1] 0.0397403
[1] "it s between -1 and 1"
[1] 9
[1] -0.3261504
[1] "it s between -1 and 1"
[1] 10
[1] 0.06442183
[1] "it s between -1 and 1"
[1] 11
[1] -0.2404585
[1] "it s between -1 and 1"

```



## Codigo

```
x<-rnorm(10)
```

```
y<-dnorm(x,mean = 0, sd=1)
```

```
plot(x,y)
```

```
count<-0
```

```
res <-0
```

```
for (i in rnorm(25))
```

```
+ {
```

```
+ count<- count +1
```

```
+ print(count)
```

```
+ if(i<=1 && i>=-1){
```

```
+   print(i)
```

```
+   print("it s between -1 and 1")
```

```
+   res<-res+1
```

```
+ 
```

```
+ }
```

```
+ else
```

```
+ {
```

```
+   print(i)
```

```
+   print("Out of range")
```

```
+ 
```

```
+ }
```

```
+ }
```

```
[1] 1
```

```
[1] 1.339283
```

```
[1] "Out of range"
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[1] 2
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[1] 0.7785383
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[1] "it s between -1 and 1"
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[1] 3
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[1] "it s between -1 and 1"

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[1] -1.155494

[1] "Out of range"

[1] 5

[1] -0.6643419

[1] "it s between -1 and 1"

[1] 6

[1] 0.01578157

[1] "it s between -1 and 1"

[1] 7

[1] -1.718097

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[1] 8

[1] 0.0397403

[1] "it s between -1 and 1"

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[1] -0.3261504

[1] "it s between -1 and 1"

[1] 10

[1] 0.06442183

[1] "it s between -1 and 1"

[1] 11

[1] -0.2404585

[1] "it s between -1 and 1"

[1] 12

[1] -0.2095018  
[1] "it s between -1 and 1"  
[1] 13  
[1] -0.5594693  
[1] "it s between -1 and 1"  
[1] 14  
[1] 0.09969913  
[1] "it s between -1 and 1"  
[1] 15  
[1] -0.6202305  
[1] "it s between -1 and 1"  
[1] 16  
[1] -0.9877853  
[1] "it s between -1 and 1"  
[1] 17  
[1] 0.5378453  
[1] "it s between -1 and 1"  
[1] 18  
[1] -1.905462  
[1] "Out of range"  
[1] 19  
[1] 0.4316536  
[1] "it s between -1 and 1"  
[1] 20  
[1] -0.6571548  
[1] "it s between -1 and 1"  
[1] 21

**[1] 0.08225243**

**[1] "it s between -1 and 1"**

**[1] 22**

**[1] 0.5815983**

**[1] "it s between -1 and 1"**

**[1] 23**

**[1] -0.5875467**

**[1] "it s between -1 and 1"**

**[1] 24**

**[1] -0.2462955**

**[1] "it s between -1 and 1"**

**[1] 25**

**[1] 0.1651253**

**[1] "it s between -1 and 1"**

**Res <- res / count**

**print(Res)**

**[1] 0.84**



