

Lab03

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```
library(RSQLite)
library(DBI)
dbcon = dbConnect(SQLite(), dbname="C:/Users/John/Desktop/STAT 240/Data/lab03.sqlite")
```

Question 1a

There are 21 distinct years.

Question 1b

The code used to calculate the value is shown below

```
qry = "SELECT DISTINCT year FROM Winter0"
#check row number of such entries, row number = number of distinct years
nrow(dbGetQuery(dbcon, qry))
```

```
## [1] 21
```

```
dbGetQuery(dbcon, qry)
```

```
##   year
## 1 1924
## 2 1928
## 3 1932
## 4 1936
## 5 1948
## 6 1952
## 7 1956
## 8 1960
## 9 1964
## 10 1968
## 11 1972
## 12 1976
## 13 1980
## 14 1984
## 15 1988
## 16 1992
## 17 1994
## 18 1998
## 19 2002
## 20 2006
## 21 2010
```

Question 2a

```
qry = "SELECT DISTINCT Height_m FROM Pokem ORDER BY Height_m DESC"  
dbGetQuery(dbcon, qry)
```

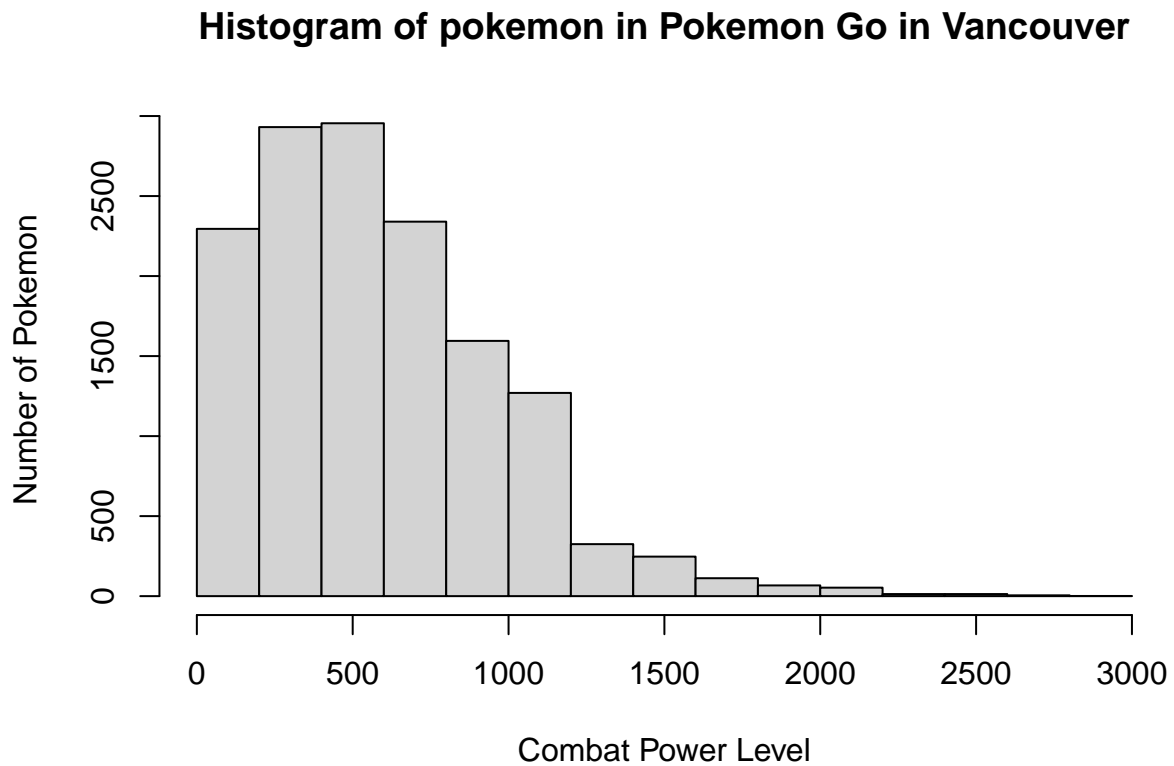
##	Height_m
## 1	14.50
## 2	9.19
## 3	8.79
## 4	7.01
## 5	6.91
## 6	6.50
## 7	6.20
## 8	5.79
## 9	5.41
## 10	5.21
## 11	5.00
## 12	4.50
## 13	4.19
## 14	3.99
## 15	3.81
## 16	3.71
## 17	3.51
## 18	3.30
## 19	3.20
## 20	3.00
## 21	2.90
## 22	2.79
## 23	2.69
## 24	2.59
## 25	2.49
## 26	2.39
## 27	2.31
## 28	2.21
## 29	2.11
## 30	2.01
## 31	1.91
## 32	1.80
## 33	1.70
## 34	1.60
## 35	1.50
## 36	1.40
## 37	1.30
## 38	1.19
## 39	1.09
## 40	0.99
## 41	0.89
## 42	0.84
## 43	0.79
## 44	0.71
## 45	0.61
## 46	0.51
## 47	0.41

##	48	0.30
##	49	0.20
##	50	0.10

There are 50 distinct heights

Question 3a
Histogram

```
qry = "SELECT cp FROM Vanpoke"
p=dbGetQuery(dbcon, qry)
hist(p$cp, main="Histogram of pokemon in Pokemon Go in Vancouver",
     xlab="Combat Power Level", ylab = "Number of Pokemon")
```



Question 3b
Kernel Density Plot

```
plot(density(p$cp), main = "Kernal Density Plot of Pokemon Combat Power Level ",
     xlab = "Combat Power Level", ylab = "Density / Probability")
```

Kernal Density Plot of Pokemon Combat Power Level

