

This data report uses **Structured Query Language (SQL)*** loaded through the Python library `sqlite3`, which allows to run SQL commands via Python for its use in Jupyter Notebook. This data report analyzed the `DigiDb_digimonlist.csv` dataset by [Rachel Tatman](#)

```
In [1]: import pandas as pd
import sqlite3
```

```
In [5]: df=pd.read_csv('DigiDB_digimonlist.csv')
df.head()
```

```
Out[5]:
```

	Number	Digimon	Stage	Type	Attribute	Memory	EquipSlots	Lv50HP	Lv50SP	Lv50Atk	Lv50Def
0	1	Kuramon	Baby	Free	Neutral	2	0	590	77	79	
1	2	Pabumon	Baby	Free	Neutral	2	0	950	62	76	
2	3	Punimon	Baby	Free	Neutral	2	0	870	50	97	
3	4	Botamon	Baby	Free	Neutral	2	0	690	68	77	
4	5	Poyomon	Baby	Free	Neutral	2	0	540	98	54	

I then created a database named `DigiDB` and created a connection named `cnn` to connect the notebook and dataframe to the database. Afterwards, the `.to_sql` was called to manage the connection between the database and `DigiDB`, the name of the table I worked with

```
In [6]: cnn = sqlite3.connect('DigiDB.db')
```

```
In [7]: df.to_sql('DigiDB', cnn)
```

```
Out[7]: 249
```

```
In [8]: %load_ext sql
```

```
In [9]: %sql sqlite:///DigiDB.db
```

To test if the database was created successfully, the `SELECT` function was used to see if it would bring out the dataframe (named as `df`)

```
In [12]: %%sql
SELECT * FROM DigiDB
* sqlite:///DigiDB.db
Done.
```

Out[12]:

index	Number	Digimon	Stage	Type	Attribute	Memory	EquipSlots	Lv50HP	Lv5
0	1	Kuramon	Baby	Free	Neutral	2	0	590	
1	2	Pabumon	Baby	Free	Neutral	2	0	950	
2	3	Punimon	Baby	Free	Neutral	2	0	870	
3	4	Botamon	Baby	Free	Neutral	2	0	690	
4	5	Poyomon	Baby	Free	Neutral	2	0	540	
5	6	Koromon	In-Training	Free	Fire	3	0	940	
6	7	Tanemon	In-Training	Free	Plant	3	0	1030	
7	8	Tsunomon	In-Training	Free	Earth	3	0	930	
8	9	Tsumemon	In-Training	Free	Dark	3	0	930	
9	10	Tokomon	In-Training	Free	Neutral	3	0	640	
10	11	Nyaromon	In-Training	Free	Light	3	0	540	
11	12	Pagumon	In-Training	Free	Dark	3	0	550	
12	13	Yokomon	In-Training	Free	Plant	3	0	1040	
13	14	Bukamon	In-Training	Free	Water	3	0	830	
14	15	Motimon	In-Training	Free	Neutral	3	0	1030	
15	16	Wanyamon	In-Training	Free	Wind	3	0	830	
16	17	Agumon	Rookie	Vaccine	Fire	5	1	1030	
17	18	Agumon (Blk)	Rookie	Virus	Fire	5	1	1020	
18	19	Armadillomon	Rookie	Free	Earth	4	1	1160	
19	20	Impmon	Rookie	Virus	Dark	5	1	530	
20	21	Elecmon	Rookie	Data	Electric	4	1	930	
21	22	Otamamon	Rookie	Virus	Water	4	1	930	
22	23	Gaomon	Rookie	Data	Neutral	5	1	1030	
23	24	Gazimon	Rookie	Virus	Dark	4	1	970	
24	25	Gabumon	Rookie	Data	Fire	5	1	980	
25	26	Gabumon (Blk)	Rookie	Virus	Fire	5	1	950	
26	27	Guilmon	Rookie	Virus	Fire	5	1	1050	

index	Number	Digimon	Stage	Type	Attribute	Memory	EquipSlots	Lv50HP	Lv5
27	28	Kudamon	Rookie	Vaccine	Light	5	1	590	
28	29	Keramon	Rookie	Free	Dark	5	1	1030	
29	30	Gotsumon	Rookie	Data	Earth	5	1	790	
30	31	Goblimon	Rookie	Virus	Earth	4	1	1050	
31	32	Gomamon	Rookie	Vaccine	Water	5	1	1160	
32	33	Syakomon	Rookie	Virus	Water	4	1	870	
33	34	Solarmon	Rookie	Vaccine	Light	4	1	1030	
34	35	Terriermon	Rookie	Vaccine	Wind	4	1	690	
35	36	Tentomon	Rookie	Vaccine	Plant	4	1	750	
36	37	ToyAgumon	Rookie	Vaccine	Neutral	4	1	1110	
37	38	Dorumon	Rookie	Data	Neutral	5	1	1020	
38	39	Hagurumon	Rookie	Virus	Electric	4	1	1090	
39	40	Patamon	Rookie	Data	Wind	4	1	880	
40	41	Hackmon	Rookie	Data	Fire	5	1	1030	
41	42	Palmon	Rookie	Data	Plant	5	1	1140	
42	43	DemiDevimon	Rookie	Virus	Dark	4	1	650	
43	44	Biyomon	Rookie	Vaccine	Wind	4	1	830	
44	45	Falcomon	Rookie	Vaccine	Wind	5	1	740	
45	46	Veemon	Rookie	Free	Neutral	5	1	1040	
46	47	Salamon	Rookie	Vaccine	Light	4	1	540	
47	48	Betamon	Rookie	Virus	Water	4	1	870	
48	49	Hawkmon	Rookie	Free	Wind	5	1	690	
49	50	Lalamon	Rookie	Data	Plant	4	1	1100	
50	51	Lucemon	Rookie	Vaccine	Light	14	1	1230	
51	52	Renamon	Rookie	Data	Plant	5	1	930	
52	53	Lopmon	Rookie	Data	Earth	4	1	790	
53	54	Wormmon	Rookie	Free	Plant	4	1	760	
54	55	IceDevimon	Champion	Virus	Water	8	1	990	
55	56	Aquilamon	Champion	Free	Wind	8	1	840	
56	57	Ankylomon	Champion	Free	Earth	6	2	1330	
57	58	Ikkakumon	Champion	Vaccine	Water	8	1	1330	
58	59	Wizardmon	Champion	Data	Dark	8	1	690	
59	60	Woodmon	Champion	Virus	Plant	6	2	1480	

index	Number	Digimon	Stage	Type	Attribute	Memory	EquipSlots	Lv50HP	Lv5
60	61	ExVeemon	Champion	Free	Neutral	8	1	1030	
61	62	Angemon	Champion	Vaccine	Light	8	1	940	
62	63	Ogremon	Champion	Virus	Earth	8	1	1230	
63	64	Guardromon	Champion	Virus	Electric	6	2	990	
64	65	GaoGamon	Champion	Data	Wind	8	1	740	
65	66	Kabuterimon	Champion	Vaccine	Plant	6	2	890	
66	67	ShellNumemon	Champion	Virus	Water	6	2	1280	
67	68	Gargomon	Champion	Vaccine	Electric	6	2	1030	
68	69	Garurumon	Champion	Vaccine	Fire	8	1	890	
69	70	Garurumon (Blk)	Champion	Virus	Fire	8	1	890	
70	71	Kyubimon	Champion	Data	Fire	8	1	740	
71	72	Growlmon	Champion	Virus	Fire	8	1	1180	
72	73	Kurisarimon	Champion	Free	Dark	8	1	1280	
73	74	Greymon	Champion	Vaccine	Fire	8	1	1230	
74	75	Greymon (Blue)	Champion	Virus	Fire	8	1	1280	
75	76	Clockmon	Champion	Data	Electric	6	2	1030	
76	77	Kuwagamon	Champion	Virus	Plant	6	2	1180	
77	78	Gekomon	Champion	Virus	Water	6	2	1130	
78	79	Geremon	Champion	Virus	Electric	6	2	1380	
79	80	GoldNumemon	Champion	Virus	Light	6	2	1130	
80	81	Cyclonemon	Champion	Virus	Earth	6	2	940	
81	82	Sunflowmon	Champion	Data	Plant	6	2	1180	
82	83	Seadramon	Champion	Data	Water	6	2	1080	
83	84	GeoGreymon	Champion	Vaccine	Fire	8	1	1330	
84	85	Sukamon	Champion	Virus	Earth	6	2	1430	
85	86	Starmon	Champion	Data	Neutral	6	2	1080	
86	87	Stingmon	Champion	Free	Plant	8	1	1130	
87	88	Socerimon	Champion	Vaccine	Water	8	1	1030	
88	89	Tankmon	Champion	Data	Electric	6	2	940	
89	90	Tyrannomon	Champion	Data	Fire	6	2	1230	
90	91	Gatomon	Champion	Vaccine	Light	8	1	640	
91	92	Devimon	Champion	Virus	Dark	8	1	990	
92	93	Togemon	Champion	Data	Plant	8	1	1330	

index	Number	Digimon	Stage	Type	Attribute	Memory	EquipSlots	Lv50HP	Lv5
93	94	Dorugamon	Champion	Data	Earth	8	1	1180	
94	95	Nanimon	Champion	Virus	Earth	6	2	1070	
95	96	Numemon	Champion	Virus	Earth	6	2	1380	
96	97	Birdramon	Champion	Vaccine	Fire	8	1	940	
97	98	Bakemon	Champion	Virus	Dark	6	2	590	
98	99	Veedramon	Champion	Vaccine	Wind	8	1	1180	
99	100	PlatinumSukamon	Champion	Virus	Neutral	6	2	1380	
100	101	BlackGatamon	Champion	Virus	Dark	8	1	690	
101	102	Vegiemon	Champion	Virus	Plant	6	2	1380	
102	103	Peckmon	Champion	Vaccine	Wind	8	1	790	
103	104	Meramon	Champion	Data	Fire	6	2	1130	
104	105	Frigimon	Champion	Vaccine	Water	6	2	1380	
105	106	Leomon	Champion	Vaccine	Earth	8	1	1180	
106	107	Reppamon	Champion	Vaccine	Light	8	1	790	
107	108	Waspmon	Champion	Virus	Electric	6	2	1180	
108	109	MegaKabuterimon	Ultimate	Vaccine	Plant	12	2	1430	
109	110	Antylamon	Ultimate	Data	Neutral	12	2	940	
110	111	Andromon	Ultimate	Vaccine	Electric	12	2	1040	
111	112	Meteormon	Ultimate	Data	Earth	12	2	1090	
112	113	Infermon	Ultimate	Free	Dark	14	1	1330	
113	114	Myotismon	Ultimate	Virus	Dark	14	1	1290	
114	115	AeroVeedramon	Ultimate	Vaccine	Wind	14	1	1430	
115	116	Etemon	Ultimate	Virus	Dark	12	2	1130	
116	117	Angewomon	Ultimate	Vaccine	Light	14	1	890	
117	118	Okuwamon	Ultimate	Virus	Plant	12	2	1330	
118	119	Garudamon	Ultimate	Vaccine	Fire	12	2	1040	
119	120	Gigadramon	Ultimate	Virus	Wind	12	2	1240	
120	121	CannonBeemon	Ultimate	Virus	Electric	12	2	990	
121	122	GrapLeomon	Ultimate	Vaccine	Electric	12	2	1580	
122	123	Cyberdrakon	Ultimate	Vaccine	Dark	14	1	1480	
123	124	Shakkoumon	Ultimate	Free	Light	14	1	1530	
124	125	Cherrymon	Ultimate	Virus	Plant	12	2	1630	
125	126	Silphymon	Ultimate	Free	Wind	14	1	1040	

index	Number	Digimon	Stage	Type	Attribute	Memory	EquipSlots	Lv50HP	Lv5
126	127	SuperStarmon	Ultimate	Data	Light	12	2	1180	
127	128	SkullGreymon	Ultimate	Virus	Dark	14	1	1230	
128	129	Zudomon	Ultimate	Vaccine	Water	12	2	1630	
129	130	Taomon	Ultimate	Data	Dark	12	2	990	
130	131	Chirinmon	Ultimate	Vaccine	Light	14	1	940	
131	132	Digitamamon	Ultimate	Data	Neutral	12	2	1380	
132	133	SkullMeramon	Ultimate	Data	Fire	12	2	1530	
133	134	ShogunGekomon	Ultimate	Virus	Water	12	2	1980	
134	135	DoruGreymon	Ultimate	Data	Fire	14	1	1480	
135	136	Knightmon	Ultimate	Data	Neutral	12	2	1140	
136	137	Datamon	Ultimate	Virus	Electric	12	2	1180	
137	138	Paildramon	Ultimate	Free	Neutral	14	1	1280	
138	139	Panjamon	Ultimate	Vaccine	Water	12	2	1280	
139	140	Pumpkinmon	Ultimate	Data	Earth	10	3	1480	
140	141	Piximon	Ultimate	Data	Light	12	2	990	
141	142	BlackKingNumemon	Ultimate	Virus	Dark	10	3	1580	
142	143	BlueMeramon	Ultimate	Virus	Fire	12	2	1140	
143	144	Vademon	Ultimate	Virus	Dark	10	3	1130	
144	145	Whamon	Ultimate	Vaccine	Water	12	2	1680	
145	146	MagnaAngemon	Ultimate	Vaccine	Light	14	1	1180	
146	147	MachGaogamon	Ultimate	Data	Wind	12	2	1480	
147	148	Mamemon	Ultimate	Data	Earth	10	3	1480	
148	149	MegaSeadramon	Ultimate	Data	Water	12	2	1330	
149	150	Megadramon	Ultimate	Virus	Wind	12	2	1430	
150	151	WarGrowlmon	Ultimate	Virus	Fire	14	1	1430	
151	152	MetalGreymon	Ultimate	Vaccine	Fire	14	1	1530	
152	153	MetalGreymon (Blue)	Ultimate	Virus	Fire	14	1	1670	
153	154	MetalTyrannomon	Ultimate	Virus	Electric	12	2	1090	
154	155	MetalMamemon	Ultimate	Data	Electric	10	3	1040	
155	156	Monzaemon	Ultimate	Vaccine	Neutral	12	2	1580	
156	157	Crowmon	Ultimate	Vaccine	Wind	12	2	890	
157	158	RizeGreymon	Ultimate	Vaccine	Fire	14	1	1530	
158	159	Lilamon	Ultimate	Data	Plant	12	2	1280	

index	Number	Digimon	Stage	Type	Attribute	Memory	EquipSlots	Lv50HP	Lv5
159	160	Rapidmon	Ultimate	Vaccine	Electric	12	2	1180	
160	161	Lillymon	Ultimate	Data	Plant	12	2	890	
161	162	Lucemon FM	Ultimate	Virus	Neutral	22	1	1390	
162	163	LadyDevimon	Ultimate	Virus	Dark	14	1	890	
163	164	WereGarurumon	Ultimate	Vaccine	Earth	12	2	1430	
164	165	WereGarurumon (Blk)	Ultimate	Virus	Earth	12	2	1480	
165	166	Wisemon	Ultimate	Virus	Dark	12	2	790	
166	167	Alphamon	Mega	Vaccine	Neutral	22	1	1390	
167	168	UlforceVeedramon	Mega	Vaccine	Wind	22	1	1680	
168	169	Ebemon	Mega	Virus	Electric	16	3	1230	
169	170	Imperialdramon DM	Mega	Free	Fire	20	2	1730	
170	171	Imperialdramon FM	Mega	Free	Neutral	20	2	1780	
171	172	Vikemon	Mega	Free	Water	18	3	1780	
172	173	VenomMyotismon	Mega	Virus	Dark	20	2	1540	
173	174	WarGreymon	Mega	Vaccine	Fire	20	2	1630	
174	175	Exammon	Mega	Data	Wind	22	1	1630	
175	176	Ophanimon	Mega	Vaccine	Light	20	2	840	
176	177	Gaiomon	Mega	Virus	Fire	18	3	1630	
177	178	ChaosGallantmon	Mega	Virus	Dark	22	1	1340	
178	179	Gankoomon	Mega	Data	Fire	22	1	2080	
179	180	Kuzuhamon	Mega	Data	Dark	18	3	1380	
180	181	GranKuwagamon	Mega	Virus	Plant	18	3	1530	
181	182	GroundLocomon	Mega	Data	Electric	18	3	1140	
182	183	Craniamon	Mega	Vaccine	Earth	22	1	1630	
183	184	Kerpymon (Good)	Mega	Vaccine	Light	20	1	1290	
184	185	SaberLeomon	Mega	Data	Wind	18	3	1680	
185	186	Sakuyamon	Mega	Data	Light	18	3	990	
186	187	Jesmon	Mega	Data	Neutral	22	1	1480	
187	188	ShineGreymon	Mega	Vaccine	Light	20	2	1880	
188	189	Justimon	Mega	Vaccine	Light	18	3	1530	
189	190	Kentaurosmon	Mega	Vaccine	Light	22	1	1140	
190	191	Seraphimon	Mega	Vaccine	Light	20	2	1480	
191	192	MegaGargomon	Mega	Vaccine	Electric	18	3	1430	

index	Number	Digimon	Stage	Type	Attribute	Memory	EquipSlots	Lv50HP	Lv5
192	193	TigerVespamon	Mega	Virus	Electric	18	3	1630	
193	194	Titamon	Mega	Virus	Earth	18	3	1930	
194	195	Dianamon	Mega	Data	Water	20	1	790	
195	196	Diaboromon	Mega	Free	Dark	20	2	1680	
196	197	Creepymon	Mega	Virus	Dark	22	1	1440	
197	198	Gallantmon	Mega	Virus	Light	22	1	1480	
198	199	Dynasmon	Mega	Data	Wind	22	1	1680	
199	200	Leopardmon	Mega	Data	Light	22	1	990	
200	201	Leopardmon LM	Mega	Data	Earth	25	1	1290	
201	202	HiAndromon	Mega	Vaccine	Electric	18	3	1190	
202	203	Barbamon	Mega	Virus	Dark	22	1	1330	
203	204	BanchoLeomon	Mega	Vaccine	Earth	18	3	1630	
204	205	Piedmon	Mega	Virus	Dark	18	3	890	
205	206	Puppetmon	Mega	Virus	Plant	18	3	1140	
206	207	PlatinumNumemon	Mega	Virus	Neutral	16	3	1830	
207	208	BlackWarGreymon	Mega	Virus	Fire	20	2	1730	
208	209	PrinceMamemon	Mega	Data	Neutral	16	3	1630	
209	210	Plesiomon	Mega	Data	Water	18	3	1680	
210	211	HerculesKabuterimon	Mega	Vaccine	Plant	18	3	1680	
211	212	Beelzemon	Mega	Virus	Dark	22	1	1680	
212	213	Belphemon SM	Mega	Virus	Dark	22	1	1730	
213	214	Hououmon	Mega	Vaccine	Fire	18	3	1390	
214	215	Magnadramon	Mega	Vaccine	Light	20	2	1880	
215	216	Boltmon	Mega	Data	Electric	18	3	1580	
216	217	Mastemon	Mega	Vaccine	Neutral	22	1	1340	
217	218	MarineAngemon	Mega	Vaccine	Water	18	3	1190	
218	219	Minervamon	Mega	Virus	Neutral	20	1	1580	
219	220	MirageGaogamon	Mega	Data	Wind	18	3	1480	
220	221	Machinedramon	Mega	Virus	Electric	18	3	1240	
221	222	MetalEtemon	Mega	Virus	Earth	18	3	1630	
222	223	MetalGarurumon	Mega	Data	Water	18	3	1140	
223	224	MetalGarurumon (Blk)	Mega	Virus	Electric	18	3	1190	
224	225	MetalSeadramon	Mega	Data	Water	18	3	1430	

index	Number	Digimon	Stage	Type	Attribute	Memory	EquipSlots	Lv50HP	Lv5
225	226	RustTyranomon	Mega	Virus	Electric	18	3	1680	
226	227	Leviamon	Mega	Virus	Water	22	1	1730	
227	228	Lilithmon	Mega	Virus	Dark	22	1	940	
228	229	Ravemon	Mega	Vaccine	Wind	18	3	1040	
229	230	Crusadermon	Mega	Virus	Dark	22	1	1240	
230	231	Rosemon	Mega	Data	Plant	18	3	1330	
231	232	Lotosmon	Mega	Data	Plant	18	3	940	
232	233	Imperialdramon PM	Ultra	Vaccine	Light	25	1	1530	
233	234	Omnimon	Ultra	Vaccine	Light	25	1	1680	
234	235	Omnimon Zwart	Ultra	Vaccine	Dark	25	1	1490	
235	236	Belpheumon RM	Ultra	Virus	Dark	25	0	1780	
236	237	Lucemon SM	Ultra	Virus	Dark	25	0	1490	
237	238	Flamedramon	Armor	Free	Fire	8	3	1130	
238	239	Magnamon	Armor	Free	Earth	22	2	1240	
239	240	Rapidmon (Armor)	Armor	Vaccine	Light	18	3	1140	
240	241	Kerpymon (Blk)	Mega	Virus	Dark	20	1	1290	
241	242	Beelzemon BM	Mega	Virus	Dark	25	1	1680	
242	243	Darkdramon	Mega	Virus	Electric	18	3	1580	
243	244	Chaosmon	Ultra	Vaccine	Neutral	25	2	1080	
244	245	Valkyrimon	Mega	Free	Wind	18	3	1330	
245	246	ShineGreymon BM	Mega	Vaccine	Fire	22	2	1980	
246	247	MirageGaogamon BM	Mega	Data	Light	20	2	1440	
247	248	Ravemon BM	Mega	Vaccine	Wind	20	2	1040	
248	249	Darkdramon BM	Mega	Data	Plant	20	2	1480	

Once the `df` can be fully loaded, I started checking the `COUNT` of Digimons. I arranged it in `DESC` order to see which `Stage` has more counts in the dataset.

In [13]:

```
%%sql
```

```
SELECT Stage, COUNT(Stage) AS Count
FROM DigiDB
GROUP BY Stage
ORDER BY
COUNT(Stage) DESC
```

```
* sqlite:///DigiDB.db
Done.
```

Out[13]:

Stage	Count
Mega	74
Ultimate	58
Champion	54
Rookie	38
In-Training	11
Ultra	6
Baby	5
Armor	3

The same was done for the `Type` and `Attribute` of Digimons.

In [14]:

```
%%sql
SELECT Type, COUNT(Type) AS Count
FROM DigiDB
GROUP BY Type
ORDER BY
COUNT(Type) DESC
```

```
* sqlite:///DigiDB.db
Done.
```

Out[14]:

Type	Count
Virus	82
Vaccine	70
Data	60
Free	37

In [15]:

```
%%sql
SELECT Attribute, COUNT(Attribute) AS Count
FROM DigiDB
GROUP BY Attribute
ORDER BY
COUNT(Attribute) DESC
```

```
* sqlite:///DigiDB.db
Done.
```

Out[15]:

Attribute	Count
Dark	37
Fire	33
Light	29
Neutral	28
Plant	25
Electric	25
Wind	24
Water	24
Earth	24

After seeing the `COUNT`, I then checked the `AVG` of each `Stage` in the bases of their `Lv50Atk`, `Lv50Def`, and `Lv50Spd`. The same was done per `Attribute`.

In [35]:

%%sql

```
SELECT Stage, ROUND(AVG(Lv50Atk)) AS AverageAtk, ROUND(AVG(Lv50Def)) AS AverageDef, ROUND(AVG(Lv50Spd)) AS AverageSpd
FROM DigiDB
GROUP BY Stage
ORDER BY
AverageAtk ASC
```

```
* sqlite:///DigiDB.db
Done.
```

Out[35]:

Stage	AverageAtk	AverageDef	AverageSpd
Baby	77.0	77.0	77.0
In-Training	81.0	77.0	81.0
Rookie	92.0	87.0	90.0
Champion	108.0	105.0	103.0
Ultimate	129.0	124.0	123.0
Armor	148.0	162.0	129.0
Mega	153.0	138.0	152.0
Ultra	195.0	150.0	153.0

In [36]:

%%sql

```
SELECT Attribute, ROUND(AVG(Lv50Atk)) AS AverageAtk, ROUND(AVG(Lv50Def)) AS AverageDef, ROUND(AVG(Lv50Spd)) AS AverageSpd
FROM DigiDB
GROUP BY Attribute
```

```
* sqlite:///DigiDB.db
Done.
```

Out[36]:

Attribute	AverageAtk	AverageDef	AverageSpd
-----------	------------	------------	------------

Dark	129.0	107.0	132.0
Earth	129.0	132.0	107.0
Electric	132.0	137.0	116.0
Fire	142.0	115.0	119.0
Light	111.0	119.0	134.0
Neutral	127.0	112.0	113.0
Plant	110.0	116.0	105.0
Water	98.0	110.0	107.0
Wind	136.0	105.0	144.0

I then wanted to know more about the top five `AverageAtk` , `AverageDef` , and `AverageSpd` per `Attribute` .

In [19]:

```
%%sql
SELECT Attribute, ROUND(AVG(Lv50Atk)) AS AverageAtk
FROM DigiDB
GROUP BY Attribute
ORDER BY
AVG(Lv50Atk) DESC
LIMIT 5
```

```
* sqlite:///DigiDB.db
Done.
```

Out[19]:

Attribute	AverageAtk
-----------	------------

Fire	142.0
Wind	136.0
Electric	132.0
Dark	129.0
Earth	129.0

In [20]:

```
%%sql
SELECT Attribute, ROUND(AVG(Lv50Def)) AS AverageDef
FROM DigiDB
GROUP BY Attribute
ORDER BY
AVG(Lv50Def) DESC
LIMIT 5
```

```
* sqlite:///DigiDB.db
Done.
```

Out[20]:

Attribute	AverageDef
Electric	137.0
Earth	132.0
Light	119.0
Plant	116.0
Fire	115.0

In [21]:

```
%%sql

SELECT Attribute, ROUND(AVG(Lv50Spd)) AS AverageSpd
FROM DigiDB
GROUP BY Attribute
ORDER BY
AVG(Lv50Spd) DESC
LIMIT 5
```

```
* sqlite:///DigiDB.db
Done.
```

Out[21]:

Attribute	AverageSpd
Wind	144.0
Light	134.0
Dark	132.0
Fire	119.0
Electric	116.0

Finally, I wanted to know more about the top five **Digimon** based on their **AverageAtk**, **AverageDef**, and **AverageSpd**.

In [28]:

```
%%sql

SELECT Digimon, Stage, Type, Attribute, Lv50Atk
FROM DigiDB
WHERE Lv50Atk > (SELECT AVG(Lv50Atk) FROM DigiDB)
ORDER BY
Lv50Atk DESC
LIMIT 5
```

```
* sqlite:///DigiDB.db
Done.
```

Out[28]:

Digimon	Stage	Type	Attribute	Lv50Atk
Chaosmon	Ultra	Vaccine	Neutral	318
Belphemon RM	Ultra	Virus	Dark	247
Diaboromon	Mega	Free	Dark	243
Beelzemon BM	Mega	Virus	Dark	238
SaberLeomon	Mega	Data	Wind	228

In [29]: `%%sql`

```
SELECT Digimon, Stage, Type, Attribute, Lv50Def
FROM DigiDB
WHERE Lv50Atk > (SELECT AVG(Lv50Def) FROM DigiDB)
ORDER BY
Lv50Def DESC
LIMIT 5
```

* sqlite:///DigiDB.db
Done.

Out[29]:

Digimon	Stage	Type	Attribute	Lv50Def
GroundLocomon	Mega	Data	Electric	213
Craniamon	Mega	Vaccine	Earth	208
Magnamon	Armor	Free	Earth	208
Omnimon Zwart	Ultra	Vaccine	Dark	193
BanchoLeomon	Mega	Vaccine	Earth	188

In [30]: `%%sql`

```
SELECT Digimon, Stage, Type, Attribute, Lv50Spd
FROM DigiDB
WHERE Lv50Atk > (SELECT AVG(Lv50Spd) FROM DigiDB)
ORDER BY
Lv50Spd DESC
LIMIT 5
```

* sqlite:///DigiDB.db
Done.

Out[30]:

Digimon	Stage	Type	Attribute	Lv50Spd
Leopardmon LM	Mega	Data	Earth	218
Ravemon BM	Mega	Vaccine	Wind	213
Ravemon	Mega	Vaccine	Wind	203
UlforceVeedramon	Mega	Vaccine	Wind	198
Crusadermon	Mega	Virus	Dark	193