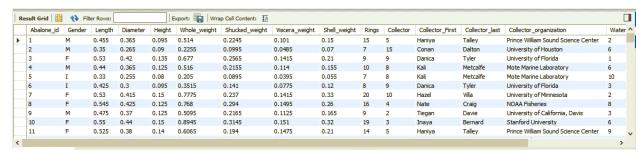
CIS 2334 Semester Project - Part 1

Name: Ebin Mathew Cougar ID: 2009205

Question 1

- 1 select*
- 2 from cis2334csvdata;



Question 2

- 1 SELECT * FROM cis2334csvdata
 2 WHERE cis2334csvdata.Water_region = 'Florida Gulf Coast'
 3 or cis2334csvdata.Water_region = 'Florida Atlantic Coast'
 4
- Height Whole_weight Shucked_weight Abalone_id Gender Length Diameter Viscera_weight Shell_weight Collector_First Collector_last Collector_organization 15 Prince William Sound Science Center Haniya 0.53 0.42 0.135 0.677 0.2565 0.1415 0.21 Danica Tyler University of Florida University of Minnesota 0.53 0.415 0.7775 0.237 0.1415 Villa 0.15 0.33 Hazel 0.535 0.145 0.6845 0.2725 0.171 0.205 10 11 University of Houston 0.355 0.28 0.085 0.2905 0.095 0.0395 0.115 Iona Connolly Florida Atlantic University University of Florida 0.615 0.48 0.165 1,1615 0.513 0.301 0.305 10 Inava Bernard Stanford University 0.575 0.425 0.8635 NOAA Fisheries 0.14 Craig 34 42 0.68 0.55 0.175 1.798 0.3925 0.455 San Diego State University 0.55 0.425 0.135 0.8515 0.362 0.196 0.27 14 14 Santiago Vaughan Ohio State University 0.0125 0.015 University of Houston 0.325 0.245 0.07 0.161 0.0755 0.0255 0.045 13 Bettv Berg University of Houston Vaughan 0.505 0.405 0.11 0.305 0.175 Conan Dalton University of Houston

Question 3

```
1 • SELECT * FROM cis2334csvdata
2 WHERE cis2334csvdata.Gender = 'I'
3
```

	Abalone_id	Gender	Length	Diameter	Height	Whole_weight	Shucked_weight	Viscera_weight	Shell_weight	Rings	Collector	Collector_First	Collector_last	Collector_organization	Water	Water_region	Feb_temp
٠	5	I	0.33	0.255	0.08	0.205	0.0895	0.0395	0.055	7	8	Kali	Metcalfe	Mote Marine Laboratory	10	Pacific	24.1
	6	I	0.425	0.3	0.095	0.3515	0.141	0.0775	0.12	8	9	Danica	Tyler	University of Florida	3	Northeast	3.6
	17	I	0.355	0.28	0.085	0.2905	0.095	0.0395	0.115	7	7	Iona	Connolly	Florida Atlantic University	2	Florida Gulf Coast	18
	22	I	0.38	0.275	0.1	0.2255	0.08	0.049	0.085	10	2	Tiegan	Davie	University of California, Davis	8	West Coast	12.3
	43	I	0.24	0.175	0.045	0.07	0.0315	0.0235	0.02	5	9	Danica	Tyler	University of Florida	4	Mid-Atlantic	6.1
	44	I	0.205	0.15	0.055	0.042	0.0255	0.015	0.012	5	7	Iona	Connolly	Florida Atlantic University	4	Mid-Atlantic	6.1
	45	I	0.21	0.15	0.05	0.042	0.0175	0.0125	0.015	4	1	Jan	Odom	University of Houston	1	Florida Atlantic Coast	22.1
	46	I	0.39	0.295	0.095	0.203	0.0875	0.045	0.075	7	4	Nate	Craig	NOAA Fisheries	3	Northeast	3.6
	49	I	0.325	0.245	0.07	0.161	0.0755	0.0255	0.045	6	13	Betty	Berg	University of Houston	1	Florida Atlantic Coast	22.1
	51	I	0.52	0.41	0.12	0.595	0.2385	0.111	0.19	8	1	Jan	Odom	University of Houston	6	Gulf of Mexico	14.1
	59	I	0.245	0.19	0.06	0.086	0.042	0.014	0.025	4	12	Rebecca	Bennett	University of Houston	8	West Coast	12.3
	70	I	0.31	0.235	0.07	0.151	0.063	0.0405	0.045	6	5	Haniya	Talley	Prince William Sound Science	8	West Coast	12.3
	101	I	0.36	0.265	0.095	0.2315	0.105	0.046	0.075	7	1	Jan	Odom	University of Houston	6	Gulf of Mexico	14.1
	113	I	0.435	0.32	0.08	0.3325	0.1485	0.0635	0.105	9	7	Iona	Connolly	Florida Atlantic University	9	North Pacific	1.9
	122	T	0.385	0.295	0.085	0.2535	0.103	0.0575	0.085	7	4	Nate	Crain	NOAA Fisheries	6	Gulf of Mexico	14.1

Question 4

```
1 • SELECT * FROM cis2334csvdata
2 WHERE cis2334csvdata.Feb_temp > 1;
3
```

	Abalone_id	Gender	Length	Diameter	Height	Whole_weight	Shucked_weight	Viscera_weight	Shell_weight	Rings	Collector	Collector_First	Collector_last	Collector_organization	Water	Water_region	Feb_temp
١	1	М	0.455	0.365	0.095	0.514	0.2245	0.101	0.15	15	5	Haniya	Talley	Prince William Sound Science Center	2	Florida Gulf Coast	18
	2	M	0.35	0.265	0.09	0.2255	0.0995	0.0485	0.07	7	15	Conan	Dalton	University of Houston	6	Gulf of Mexico	14.1
	3	F	0.53	0.42	0.135	0.677	0.2565	0.1415	0.21	9	9	Danica	Tyler	University of Florida	1	Florida Atlantic Coast	22.1
	4	М	0.44	0.365	0.125	0.516	0.2155	0.114	0.155	10	8	Kali	Metcalfe	Mote Marine Laboratory	6	Gulf of Mexico	14.1
	5	I	0.33	0.255	0.08	0.205	0.0895	0.0395	0.055	7	8	Kali	Metcalfe	Mote Marine Laboratory	10	Pacific	24.1
	6	I	0.425	0.3	0.095	0.3515	0.141	0.0775	0.12	8	9	Danica	Tyler	University of Florida	3	Northeast	3.6
	7	F	0.53	0.415	0.15	0.7775	0.237	0.1415	0.33	20	10	Hazel	Villa	University of Minnesota	2	Florida Gulf Coast	18
	8	F	0.545	0.425	0.125	0.768	0.294	0.1495	0.26	16	4	Nate	Craig	NOAA Fisheries	8	West Coast	12.3
	9	М	0.475	0.37	0.125	0.5095	0.2165	0.1125	0.165	9	2	Tiegan	Davie	University of California, Davis	3	Northeast	3.6
	10	F	0.55	0.44	0.15	0.8945	0.3145	0.151	0.32	19	3	Inaya	Bernard	Stanford University	6	Gulf of Mexico	14.1
	11	F	0.525	0.38	0.14	0.6065	0.194	0.1475	0.21	14	5	Haniya	Talley	Prince William Sound Science Center	9	North Pacific	1.9
	12	M	0.43	0.35	0.11	0.406	0.1675	0.081	0.135	10	4	Nate	Craig	NOAA Fisheries	9	North Pacific	1.9
	13	М	0.49	0.38	0.135	0.5415	0.2175	0.095	0.19	11	12	Rebecca	Bennett	University of Houston	8	West Coast	12.3
	14	F	0.535	0.405	0.145	0.6845	0.2725	0.171	0.205	10	11	Naima	Reyes	University of Houston	1	Florida Atlantic Coast	22.1
	15	F	0.47	0.355	0.1	0.4755	0.1675	0.0805	0.185	10	8	Kali	Metcalfe	Mote Marine Laboratory	8	West Coast	12.3

Question 5

```
1 • insert into cis2334csvdata (Gender, Length, Diameter, Height, Whole_weight, Shucked_weight, Viscera_weight, Shell_weight, Rings, Collector_First,Collector_last, Collector_organization, Water_region, Feb_temp)
2 values ('M', '0.71', '0.555', '0.195', '1.9485', '0.9455', '0.495', '12', 'Jan', 'Odom', 'University of Houston', 'Florida Atlantic Coast', 22.1);
3
4 * select*
5 from cis2334csvdata;
```

	Abalone_id	Gender	Length	Diameter	Height	Whole_weight	Shucked_weight	Viscera_weight	Shell_weight	Rings	Collector	Collector_First	Collector_last	Collector_organization	Water	Water_region	Feb_temp
	4171	M	0.55	0.43	0.13	0.8395	0.3155	0.1955	0.2405	10	12	Rebecca	Bennett	University of Houston	4	Mid-Atlantic	6.1
	4172	M	0.56	0.43	0.155	0.8675	0.4	0.172	0.229	8	9	Danica	Tyler	University of Florida	6	Gulf of Mexico	14.1
	4173	F	0.565	0.45	0.165	0.887	0.37	0.239	0.249	11	15	Conan	Dalton	University of Houston	6	Gulf of Mexico	14.1
	4174	M	0.59	0.44	0.135	0.966	0.439	0.2145	0.2605	10	7	Iona	Connolly	Florida Atlantic University	4	Mid-Atlantic	6.1
	4175	M	0.6	0.475	0.205	1.176	0.5255	0.2875	0.308	9	9	Danica	Tyler	University of Florida	2	Florida Gulf Coast	18
	4176	F	0.625	0.485	0.15	1.0945	0.531	0.261	0.296	10	9	Danica	Tyler	University of Florida	9	North Pacific	1.9
	NULL	M	0.71	0.555	0.195	1.9485	0.9455	0.3765	0.495	12	NULL	Jan	Odom	University of Houston	NULL	Florida Atlantic Coast	22.1
•	NULL	M	0.71	0.555	0.195	1.9485	0.9455	0.3765	0.495	12	NULL	Jan	Odom	University of Houston	HULL	Florida Atlantic Coast	22.1

Question 6

```
1    SET SQL_SAFE_UPDATES = 0;
2    delete
3          from cis2334csvdata
4          where cis2334csvdata.Whole_weight > 1.25;
5
6    select*
7    from cis2334csvdata;
8
```

	Abalone_id	Gender	Length	Diameter	Height	Whole_weight	Shucked_weight	Viscera_weight	Shell_weight	^
	4124	I	0.49	0.375	0.115	0.557	0.2275	0.1335	0.1765	
	4125	I	0.5	0.385	0.12	0.516	0.197	0.1305	0.165	
	4126	I	0.54	0.415	0.135	0.709	0.3195	0.174	0.185	
	4127	M	0.55	0.42	0.145	0.7385	0.321	0.1485	0.252	
	4128	I	0.55	0.445	0.11	0.7935	0.378	0.142	0.26	
	4129	M	0.555	0.435	0.145	0.9205	0.404	0.2275	0.255	
	4130	I	0.57	0.425	0.14	0.7655	0.331	0.14	0.24	٧
<									>	

Question 7

- a. Find the shorthand representation of the corresponding table. Find all the functional dependences.
- b. Is the table in the first NF? If not, explain why not and then perform the first normalization.
- c. Is the table in the second NF? If not, explain why not and then perform the second normalization.
- d. Is the table in the third NF? If not, explain why not and then perform the third normalization.
- e. Create a CSV files for each table that has been created by the normalizations.
- f. File submission: Name your csv files Firstname_Lastname_Abalone.csv, Firstname_Lastname_Collectors.csv and Firstname_Lastname_Water.csv.
- g. Draw by hand an Entity-Relationship Diagram using the craw foot representation. Take a picture of it.
- h. Report submission:
- i. Use the same MS Word document.
- ii. Use the subtitle "Question 7".
- iii. Insert all the tables and Entity-Relationship Diagram.