

Milestone 3 - Database

Team Name:

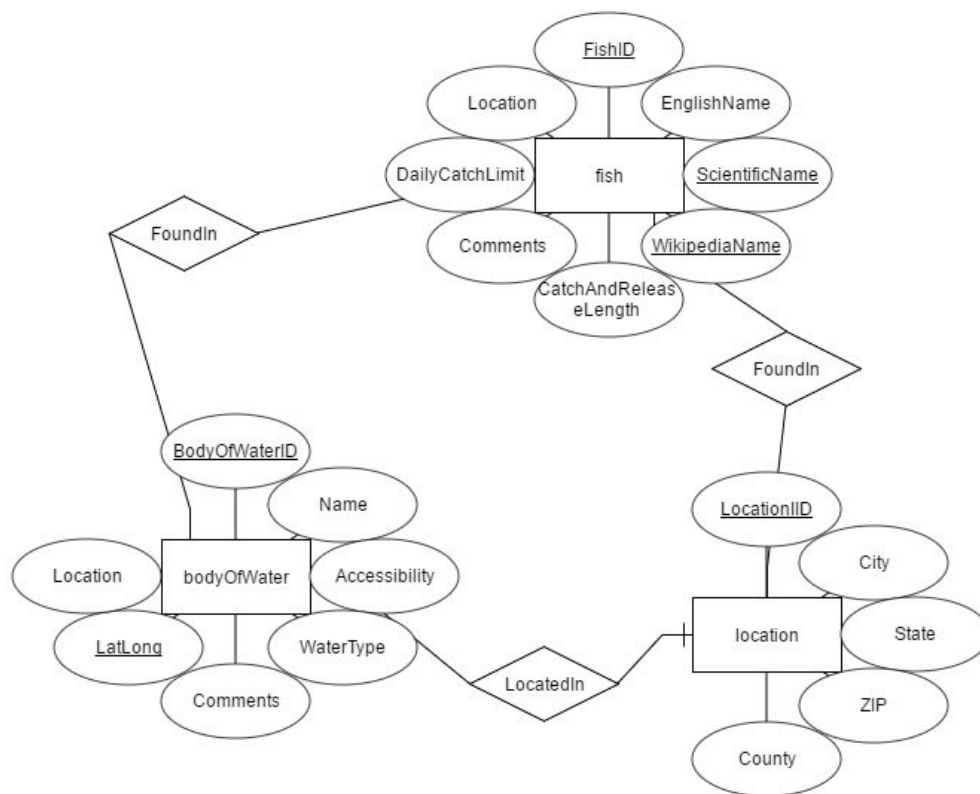
Gibberfish

Members:

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Product:

Anglerpedia



We created a relational database using MySQL and have incorporated three tables into our database: one for fish, bodies of water and location. For each table, we will be utilizing unique integer IDs as the primary key because it is more efficient than using strings when searching and joining tables. The fish table contains the common English name, as well as scientific name, the wikipedia link, legal catch and release length, daily catch limit, an attribute for comments about the fish, and a list of IDs for the bodies of water it in which it can be found. The body of water table consists of the water's name, the type of water (i.e. lake, stream, river, ocean), a description of the accessibility, a section for comments and a location Id. As for location, there is an attribute for city, county, state, zip, latitude and longitude.

We decided to define the relationship between fishes and the bodies of water in which they're found instead of between fish and the location since all locations do not contain bodies of water. There are many fish that can be found in many locations, so the relationship is many to many. The relationship between body of water and it's location is also many to many because one body of water can span multiple locations (like the Colorado or Platte Rivers).

FishID	EnglishName	ScientificName	WikipediaName	catchAndl	coml	dai	location
1	Brook Trout	Salvelinus fo...	Brook_trout	0	N...	4	1;2
2	Cutthroat Trout	Oncorhynch...	Cutthroat_trout	0	N...	4	1;2;4
3	Tiger Muskie	Esox masqui...	Tiger_muskellunge	36	N...	1	1;6;9
4	Lake Trout	Salvelinus na...	Lake_trout	0	N...	4	1;7
5	Kokanee Salmon	Oncorhynch...	Sockeye_salmon	0	S...	10	1;7
6	Brown Trout	Salmo trutta	Brown_trout	0	N...	4	1;2;7
7	Rainbow Trout	Oncorhynch...	Rainbow_trout	0	N...	4	1;2;5;...
8	Lake Chub	Couesius plu...	Lake_chub	0	N...	4	1
9	White Sucker	Catostomus ...	White_sucker	0	N...	4	1;7
10	Longnose Sucker	Catostomus ...	Longnose_sucker	0	N...	4	1;7
11	Yellow Perch	Perca flaves...	Yellow_perch	0	N...	4	5;6;10
12	Largemouth Bass	Micropterus ...	Largemouth_bass	0	N...	4	5;6;8;...
13	Green Sunfish	Lepomis cya...	Green_sunfish	0	N...	4	5;8

locationID	City	State	Zip	County
1	Nederland	CO	80466	Boulder
2	Boulder	CO	80302	Boulder
3	Lysons	CO	80540	Boulder
4	Erie	CO	80516	Boulder
6	Longmont	CO	80503	Boulder
13	Broomfield	CO	80020	Boulder
16	Lafayette	CO	80026	Boulder

bodyOfWaterID	Name	Accessibility	waterType	comments
1	Barker Reservoir	NULL	Lake	Ice fishing prohibited, catching Kokanee permitt...
2	Boulder Creek	NULL	River	Artificial flies and lures only, Trout must be retu...
3	Button Rock Reservoir	NULL	Lake	Artificial flies and lures only, No fishing between...
4	Como Creek	NULL	River	Fishing prohibited
5	Erie Lake	NULL	Lake	All largemouth and smallmouth must be returned
6	Golden Park Ponds	NULL	Lake	Artificial flies and lures only, Scented flies or lur...
7	Gross Reservoir	NULL	Lake	Fishing is prohibited from sunset to sunrise, Sna...
8	Koa Lake	NULL	Lake	All largemouth and smallmouth must be returned
9	Lagerman Reservoir	NULL	Lake	Min size for largemouth and smallmouth bass is ...
10	Pella Crossing Recreation Ponds	NULL	Lake	Artificial flies and lures only. Scented flies or lur...
11	Pit D Pond	NULL	Lake	Bag, possession and min size for largemouth an...
12	Saint Vrain Creek	NULL	River	Artificial flies and lures only, Trout must be retu...
13	Stearns Lake	NULL	Lake	Min size for largemouth and smallmouth bass is ...