**Pet Fish Store Case Study**

* Database selected is MySql.
* Create Schema for case study – fish\_store.
* Create below needed tables. We can run below queries in the order given.
* Fish\_type table contains the types of fish available. Same list will be populated online to allow user select fish.
* Aquarium\_type table contains type of aquarium. Same list will be populated online to allow user select aquarium.
* aquarium\_ready table contains the final aquarium selected by user with details of fish and aquarium selected.

create table fish\_type (

Fish\_Name varchar(100) primary key unique not null ,

Fins int not null,

Fish\_Description varchar(500));

create table aquarium\_type (

Aqua\_Name varchar(200) primary key unique not null ,

Aqua\_Water\_Capacity int not null,

Aqua\_Description varchar(500));

create table aquarium\_ready (Id int not null primary key auto\_increment ,

user\_id varchar(20) not null,

aquarium\_selected varchar(200) not null ,

fish\_selected varchar(1000) not null

);

Insert into fish\_type( Fish\_Name, Fins, Fish\_Description) values ("Gold Fish", 2, null);

Insert into fish\_type( Fish\_Name, Fins, Fish\_Description) values ("Guppies", 2, null);

Insert into fish\_type( Fish\_Name, Fins, Fish\_Description) values ("Cat Fish", 3, null);

Insert into fish\_type( Fish\_Name, Fins, Fish\_Description) values ("Blues", 4, null);

Insert into aquarium\_type( Aqua\_Name, Aqua\_Water\_Capacity, Aqua\_Description) values ("Small\_Rectangle\_25", 25, null);

Insert into aquarium\_type( Aqua\_Name, Aqua\_Water\_Capacity, Aqua\_Description) values ("Medium\_Rectangle\_55", 55, null);

Insert into aquarium\_type( Aqua\_Name, Aqua\_Water\_Capacity, Aqua\_Description) values ("Large\_Rectangle\_75", 75, null);

Insert into aquarium\_type( Aqua\_Name, Aqua\_Water\_Capacity, Aqua\_Description) values ("Millenium\_Rectangle\_125", 125, null);

Insert into aquarium\_type( Aqua\_Name, Aqua\_Water\_Capacity, Aqua\_Description) values ("Large\_Rectangle\_85", 85, null);

Insert into aquarium\_type( Aqua\_Name, Aqua\_Water\_Capacity, Aqua\_Description) values ("Millenium\_Rectangle\_200", 200, null);

Insert into aquarium\_ready( user\_id, aquarium\_selected, fish\_selected) values (1,"Large\_Rectangle\_75", "Gold Fish");

Insert into aquarium\_ready( user\_id, aquarium\_selected, fish\_selected) values (2,"Millenium\_Rectangle\_200", "Blues, Gold Fish");

Graphical user interface, text, application, email

Description automatically generated

**Coding:**

A maven Spring boot Appis created.

2 endpoints created:

1. Get mapping to get fish list. userId is dynamic. For e.g It can be user’s phone number. As of now, we are considering only 1 aquarium record will be available for user in aquarium ready table. It can be enhanced as per business requirement to handle multiple aquarium selected by same user.
   1. http://localhost:8080/fish-store/fish-for-aqua?userId=1
2. Post mapping to save incoming data.
   1. URL: <http://localhost:8080/fish-store/create-Aquarium>
   2. Example of request is as below. JSON object needs to be sent to save.

{

"userId" : "3",

"aquariumSelected" : "Large\_Rectangle\_75",

"fishSelected" : "Blues, Gold Fish"

}

**Submitted By:**

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