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# Individual Database Project (20 points)

Follow the instructions below and fill out the answers to the questions.

1. On a computer, open Blackboard and open the file called database\_project.txt

2. In Chrome open http://www.w3schools.com/sql/trysql.asp?filename=trysql\_select\_all

3. Copy the contents of database\_project.txt paste one statement (line) at a time into the SQL Statement section of the link provided.

4. Press the Run button. The results will appear when you scroll down.

5. There are three tables in the database. The Fish table has 4 columns (fish\_id, common\_name, latin\_name, and price). The Tank table has 3 columns (tank\_number, water\_type, and size). The Tank\_Fish table also has 3 columns (fish\_id, tank\_number, and quantity).

Submit this Word file with your answers to Blackboard. Late submissions will receive penalties.

Q1. What is the price of the **Neon Tetra Jumbo**?

Price: 1.89

Query: SELECT price FROM fish WHERE common\_name =‘Neon Tetra Jumbo’;

Q2. You sold all of the **Porcupine Puffer**, delete all of them from the tanks (NOT the list of fish).

Query: DELETE \* FROM fish WHERE common\_name=‘Porcupine Puffer’;

Q3. Add a Green Discus to **tank 5**.

Query: INSERT INTO tank\_fish (fish\_id, tank\_number, quantity) VALUES (12, 5, 1);

Q4. How many fish are in **tank 4**?

Quantity: 18

Query: SELECT COUNT (quantity) FROM tank\_fish WHERE tank\_number=4;

Q5. What is the Latin name of the **Angelicus Botia Loach**?

Latin name: Botia angelicus

Query: SELECT latin\_name FROM fish WHERE common\_name =‘Angelicus Botia Loach’;

Q6. How big is **tank 8**?

Size: 150 gallons

Query: SELECT size FROM tank WHERE tank\_number=8;

Q7. Update the price of all **sharks** by **$7.00**.

Query: UPDATE fish SET price=‘price+7’ WHERE common\_name=‘Black Banded Cat Shark’;

Q8. How much are all of the **sharks** in the tanks worth now?

Amount: 4168.779999999999

Query: SELECT sum(fish.price\*tank\_fish.quantity) FROM fish INNER JOIN tank\_fish ON fish.fish\_id = tank\_fish.fish\_id ;

Q9. Which tank has the **fewest** fish?

Tank: 1 and 5 (one fish each)

Query: SELECT MIN (tank\_number, quantity) FROM tank\_fish;

Q10. Which tank is worth the most and how much is it worth?

Tank 2 Amount 1459.7499999999998

Query

[SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) tank\_fish.tank\_number, [SUM](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_sum)(fish.price\*tank\_fish.quantity) AS worth FROM fish INNER JOIN tank\_fish ON fish.fish\_id = tank\_fish.fish\_id GROUP BY tank\_fish.tank\_number ORDER BY worth DESC LIMIT 1

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Q11. Which tank is worth the least and how much is it worth?

Tank 1 Amount 4.49

Query: [SELECT](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) tank\_fish.tank\_number, [SUM](http://localhost:81/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_sum)(fish.price\*tank\_fish.quantity) AS worth FROM fish INNER JOIN tank\_fish ON fish.fish\_id = tank\_fish.fish\_id GROUP BY tank\_fish.tank\_number ORDER BY worth LIMIT 1