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```
-- BEGIN Q3
SELECT Team.title AS title, COUNT(team) AS numberOfPlayers
FROM Player INNER JOIN Team ON Team.id = Player.team
GROUP BY team
ORDER BY numberOfPlayers DESC;
```

```
-- END Q3
--
```

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```
-- BEGIN Q4
SELECT Species.id AS idSpecies, Species.title AS title
FROM Type INNER JOIN Species ON Species.type1 = Type.id OR Species.type2 = Type.id
WHERE Type.title = 'grass';
```

```
-- END Q4
--
```

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```
-- BEGIN Q5
SELECT Player.id AS idPlayer, username
FROM Player
WHERE Player.id NOT IN
(SELECT Player.id
FROM Player LEFT JOIN Purchase ON Player.id = Purchase.player
RIGHT JOIN Food ON Purchase.item = Food.id);
```

```
-- END Q5
--
```

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```
-- BEGIN Q6
SELECT level, sum(quantity*price) AS totalAmountSpentByAllPlayersAtLevel
FROM Player INNER JOIN Purchase ON Player.id = Purchase.player
INNER JOIN Item ON Purchase.item = Item.id
GROUP BY level
ORDER BY totalAmountSpentByAllPlayersAtLevel DESC;
```

```
-- END Q6
--
```

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```
-- BEGIN Q7
SELECT item, title, sum(quantity) AS numTimesPurchased
FROM Purchase INNER JOIN Item ON Purchase.item = Item.id
GROUP BY item
HAVING numTimesPurchased = (SELECT sum(quantity) AS numTimesPurchased
FROM Purchase INNER JOIN Item ON Purchase.item
= Item.id
```

```
GROUP BY item
ORDER BY numTimesPurchased DESC
LIMIT 1);
```

```
-- END Q7
--
```

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```
-- BEGIN Q8
SELECT Player.id AS playerID, Player.username AS username, COUNT(DISTINCT Food.id)
AS numberDistinctFoodItemsPurchased
FROM Player INNER JOIN Purchase ON Player.id = Purchase.player
INNER JOIN Food ON Purchase.item = Food.id
GROUP BY playerID
HAVING numberDistinctFoodItemsPurchased = (SELECT COUNT(*) FROM Food);
```

```
-- END Q8
--
```

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```
-- BEGIN Q9
SELECT COUNT(ROUND(sqrt((P1.latitude-P2.latitude)*(P1.latitude - P2.latitude)+
(P1.longitude-P2.longitude)*(P1.longitude-P2.longitude))*100, 2)) AS
numberOfPhonemonPairs,
ROUND(sqrt((P1.latitude-P2.latitude)*(P1.latitude - P2.latitude)+(P1.longitude-
P2.longitude)*(P1.longitude-P2.longitude))*100, 2) AS distanceX
FROM Phonemon AS P1 CROSS JOIN Phonemon AS P2
WHERE P1.id < P2.id and (P1.latitude <> P2.latitude or P1.longitude <>
P2.longitude)
GROUP BY distanceX
limit 1;
```

```
-- END Q9
--
```

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```
-- BEGIN Q10
SELECT username, Type_table_1.title AS title
FROM Player INNER JOIN Phonemon ON Player.id = Phonemon.player
INNER JOIN Species ON Species.id = Phonemon.species
INNER JOIN Type AS Type_table_1 ON Species.Type1 = Type_table_1.id OR Species.Type2
= Type_table_1.id
GROUP BY username, title
HAVING COUNT(distinct Species.id) = (SELECT COUNT(distinct Species.id)
FROM Species INNER JOIN Type
AS Type_table_2
ON Species.Type1 = Type_table_2.id OR
Species.Type2 = Type_table_2.id
WHERE Type_table_1.title = Type_table_2.title);
```

```
-- END Q10
--
```

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-- END OF ASSIGNMENT Do not write below this line