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1)SELECT L.City, AVG(BM.BodyMassIndex) AS AverageBMI
    -> FROM Users U
    -> JOIN Location L ON U.UserID = L.UserID
    -> JOIN ProPlusMembership PP ON U.UserID = PP.UserID
    -> JOIN BodyMeasurement BM ON U.UserID = BM.UserID
    -> GROUP BY L.City;

```

City	AverageBMI
Boston	22.600000
Denver	21.600000
Seattle	26.400000

```

2)SELECT L.State, COUNT(*) AS TotalUsers
    -> FROM Users U
    -> JOIN Location L ON U.UserID = L.UserID
    -> JOIN BasicMembership BM ON U.UserID = BM.UserID
    -> WHERE BM.RenewalDate BETWEEN CURDATE() AND DATE_ADD(CURDATE(),
INTERVAL 30 DAY)
    -> GROUP BY L.State;

```

State	TotalUsers
IL	1

```

3)SELECT U.Username, BM.BodyFatPercentage
    -> FROM Users U
    -> JOIN ProMembership PM ON U.UserID = PM.UserID
    -> JOIN BodyMeasurement BM ON U.UserID = BM.UserID
    -> ORDER BY BM.BodyFatPercentage DESC
    -> LIMIT 5;

```

Username	BodyFatPercentage
User5	16.30
User6	15.90
User4	13.00

```

4)SELECT W.ExerciseCategory, AVG(WT.SetNumber) AS AvgSets,
AVG(WT.MinReps + WT.MaxReps) AS AvgReps
    -> FROM Workout W
    -> JOIN WeightTraining WT ON W.WorkoutID = WT.WorkoutID
    -> GROUP BY W.ExerciseCategory;

```

ExerciseCategory	AvgSets	AvgReps
Weight Training	3.5000	22.5000

```

5)SELECT L.City, COUNT(*) AS TotalCardioWorkouts
    -> FROM Users U
    -> JOIN Location L ON U.UserID = L.UserID
    -> JOIN Workout W ON U.UserID = W.UserID

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    -> WHERE W.ExerciseCategory = 'Cardio' AND L.City = 'YourCity'
    -> GROUP BY L.City;

```

City	TotalCardioWorkouts
New York	75

```

6)SELECT W.ExercisePlan, AVG(C.CaloriesBurned) AS AvgCaloriesBurned
    -> FROM Workout W
    -> JOIN Cardio C ON W.WorkoutID = C.WorkoutID
    -> GROUP BY W.ExercisePlan
    -> ORDER BY AvgCaloriesBurned DESC
    -> LIMIT 1;

```

ExercisePlan	AvgCaloriesBurned
Swimming	400.000000

```

7)SELECT U.Username
    -> FROM Users U
    -> JOIN ProMembership PM ON U.UserID = PM.UserID
    -> JOIN ProPlusMembership PP ON U.UserID = PP.UserID;

```

UserID	Username
4	User4
5	User5
6	User6
7	User7
8	User8
9	User9

UserID	MassageChair
4	Yes
5	Yes
6	No

UserID	StoneSona
7	Yes
8	Yes
9	No

Username
User4

User5
-------

User7
User8

```
8)SELECT L.State, SUM(BM.Fee) AS TotalFees
    -> FROM Users U
    -> JOIN Location L ON U.UserID = L.UserID
    -> JOIN BasicMembership BM ON U.UserID = BM.UserID
    -> GROUP BY L.State;
```

State	TotalFees
CA	60.00
IL	45.00
NY	50.00

```
9)SELECT W.ExerciseLevel, COUNT(*) AS UserCount
    -> FROM Users U
    -> JOIN BasicMembership BM ON U.UserID = BM.UserID
    -> JOIN Workout W ON U.UserID = W.UserID
    -> GROUP BY W.ExerciseLevel
    -> ORDER BY UserCount DESC
    -> LIMIT 1;
```

ExerciseLevel	UserCount
Beginner	1

```
10)SELECT L.City, AVG(U.Age) AS AvgAge
    -> FROM Users U
    -> JOIN Location L ON U.UserID = L.UserID
    -> GROUP BY L.City
    -> ORDER BY AvgAge DESC
    -> LIMIT 3;
```

City	AvgAge
Boston	40.0000
Chicago	35.0000
Seattle	33.0000

```
11)SELECT COUNT(*) AS TotalUsers
    -> FROM Users U
    -> JOIN ProPlusMembership PP ON U.UserID = PP.UserID
    -> JOIN Advanced A ON U.UserID = A.UserID
    -> WHERE A.AdvancedTechnique > 0.8;
```

TotalUsers
2

```
12)SELECT U.Username, PM.AdditionalFeatures
    -> FROM Users U
    -> JOIN ProMembership PM ON U.UserID = PM.UserID
    -> ORDER BY PM.AdditionalFeatures DESC
    -> LIMIT 1;
```

Username	AdditionalFeatures
User5	5