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Database Systems

Fitness Application Part 2

1. Create a SQL query that lists all information about **Fitness Activities** (must contain all information about each Fitness Activity, no matter what type of Fitness Activity it is) except for the activity instructions. Order the results alphabetically by the name of the fitness activity.

```
SELECT fa.Name AS 'Name', fa.PrimaryMuscleGroup AS 'Muscle Group',  
fa.FitnessActivityType AS 'Fitness Activity Type'  
FROM chehet25.FitnessActivity fa  
ORDER BY Name;
```

QUERY RESULT BELOW

	Name	Muscle Group	Fitness Activity Type
▶	Assisted Dips	Triceps	WeightMachine
	Assisted Pull Ups	Back	WeightMachine
	Barbell Bench Press	Chest	FreeWeightActivity
	Bicep Curls	Biceps	FreeWeightActivity
	Bicycle Crunch	Core	RepBasedExercise
	Cable Crossovers	Chest	WeightMachine
	Concentration Curls	Biceps	FreeWeightActivity
	Crunches	Core	RepBasedExercise
	Dead Bugs	Core	RepBasedExercise
	Dead Lifts	Back	FreeWeightActivity
	Double Explode Incline Press	Chest	FreeWeightActivity
	Elliptical	Multiple	TimeBasedExercise
	EZ Bar Curls	Biceps	FreeWeightActivity
	EZ Preacher Curls	Biceps	FreeWeightActivity
	Front Raise	Triceps	FreeWeightActivity
	Hammer Curls	Biceps	FreeWeightActivity
	Hammer Strength Leg Ext...	Legs	WeightMachine
	Heel Touchers	Core	RepBasedExercise
	Incline Barbell Press	Chest	FreeWeightActivity
	Lateral Pull Down	Back	WeightMachine
	Lateral Raise	Triceps	FreeWeightActivity
	Mountain Climbers	Core	RepBasedExercise
	Oblique Crunches	Core	RepBasedExercise
	Pectoral Fly	Chest	WeightMachine
	Planks	Core	TimeBasedExercise
	Prone Lying Leg Curl	Legs	WeightMachine
	Push Ups	Chest	RepBasedExercise
	Russian Twists	Core	RepBasedExercise
	Seated Cable Chest Press	Chest	WeightMachine
	Seated Cable Row	Back	WeightMachine
	Seated Leg Curl	Legs	WeightMachine
	Seated Leg Press	Legs	WeightMachine
	Seated Shoulder Press	Shoulders	WeightMachine
	Shoulder Press	Shoulders	FreeWeightActivity
	Standing Calf Raise	Legs	WeightMachine
	Swimming	Multiple	RepBasedExercise
	Torso Rotation	Core	WeightMachine
	Treadmill	Multiple	TimeBasedExercise
	Tricep Cable Push Down	Triceps	WeightMachine
	Zottman Curls	Biceps	FreeWeightActivity

2. Create a SQL query that shows all the weight machine settings and their values that are specific to user Chris. **WM is short for 'Weight Machine'**

```
SELECT s.Name AS 'Chris WM Setting', sa.Value AS 'Chris WM Value'
FROM chehet25.Setting s
JOIN chehet25.SetAt sa ON s.SettingID = sa.SettingID_SetAt
JOIN chehet25.User u ON sa.UserID_SetAt = u.UserID
WHERE u.Name = 'Chris';
```

	Chris WM Setting	Chris WM Value
►	cable height	8 holes showing from top
	divergent angle	2 holes showing from top
	start position	L
	back position	up to the back of the seat
	leg height	4
	range of motion	aligned with chest
	seat height	3
	start position	L
	divergent angle	B
	start position	L
	thigh pad	restricting but comfortable
	seat height	5
	shoulder height	5
	chest height	5

3. Not all weight machines have settings. Create a SQL query to show those machines that do not have any settings.

```
SELECT fa.Name AS 'Weight Machine Name'  
FROM chehet25.FitnessActivity fa  
JOIN chehet25.WeightMachine wm ON fa.FitnessActivityID =  
wm.FitnessActivityID_WeightMachine  
LEFT JOIN chehet25.Setting s ON wm.WeightMachineID = s.WeightMachineID_Setting  
WHERE s.WeightMachineID_Setting IS NULL;
```

	Weight Machine Name
▶	Assisted Dips
	Assisted Pull Ups
	Seated Cable Chest Press
	Seated Cable Row
	Seated Leg Press
	Tricep Cable Push Down