

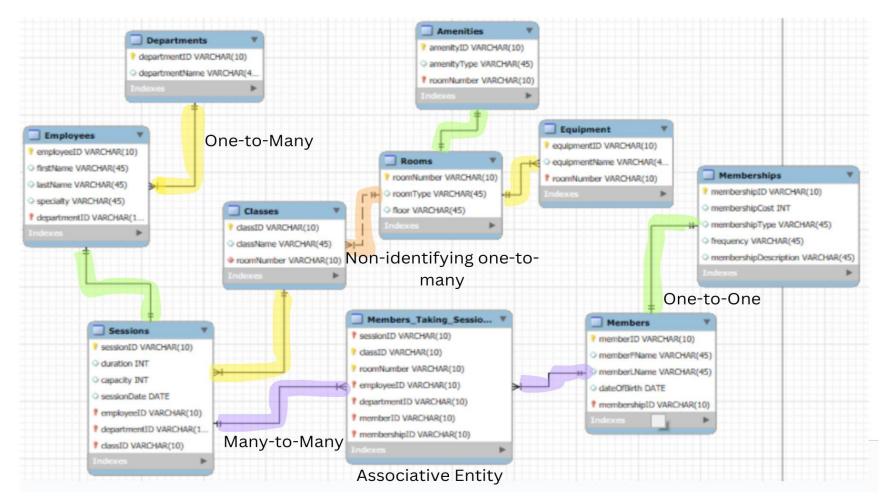
Gym Data Model

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Purpose of Data Model

- Organize the most important aspects of a gym
- Manage inventory for what's necessary for client use
- Keep track of members and their activity in the gym
- Analyze the frequency of membership use to help with pricing
- Keep track of popular classes, sessions, etc.

Data Model Breakdown



Query #1

Answers the Question: Which classes are the most popular?

#The number of members taking a specific class, finding which class is most popular SELECT className, COUNT(DISTINCT(memberID)) AS "Number of members taking class" FROM Classes JOIN Sessions ON Classes.classID = Sessions.classID 4 JOIN Members_Taking_Sessions ON Sessions.sessionID = Members_Taking_Sessions.sessionID GROUP BY className ORDER BY COUNT(DISTINCT(memberID)) DESC; Export: Wrap Cell Content: \$\frac{1}{4}

sult Grid 🔠 📢	Filter Rows:	
className	Number of members taking class	
CrossFit	3	
Spin Class	3	
Basketball	2	
Spin	2	
Weightlifting	2	
Strength Training	1	
Yoga and Stretch	1	
Zumba	1	

Query #2

Answers the Question: What classes are longer than the average session duration, and how many of those classes are offered?

61.6667

50,0000

45,0000

CrossFit

Zumba

Basketball

```
#The number of classes that are above the average class duration
21
22 •
         SELECT COUNT(duration) AS "Number of sessions over average", className, AVG(duration) AS "Average session duration"
         (SELECT AVG(duration) FROM Sessions) AS "Average duration of all sessions"
23
24
         FROM Sessions
25
         JOIN Classes ON Sessions.classID = Classes.classID
 26
         WHERE duration > (SELECT AVG(duration) FROM Sessions)
 27
         GROUP BY className:
Result Grid
                                            Export: Wrap Cell Content: TA
              Filter Rows:
                                                                   Average duration of all
   Number of sessions over
                                              Averge session
                               className
                                              duration
                                                                   sessions
   average
                              Spin Class
                                              50,0000
                                                                  40.7692
                              Strength Training
                                             60,0000
                                                                  40.7692
```

40.7692

40.7692

40.7692

Query #3

Answers the Question: Which members are not taking any classes?

```
#Finds which members are not taking any classes
        SELECT memberFName, memberLName
        FROM Members
 3
        WHERE NOT EXISTS (SELECT memberID FROM Members Taking Sessions WHERE Members.memberID = Members Taking Sessions.memberID)
 4
        ORDER BY memberLName;
                                             Export: Wrap Cell Content: TA
esult Grid
              Filter Rows:
  memberFName
                memberLName
 Marin
                Amori
 Cathie
               Baudet
               Bille
 Christen
 Barbabas
               Claris
 Gerard
               Francklyn
 Kendricks
               Hallwell
 Adelaide
               Highman
 Yehudit
               Jevons
               Lared
 Karmen
 Brion
               Muneely
 Gabriel
                Sevior
 Jacob
               White
 Nicolette
                Willcock
               Zupone
 Gran
```