

## Fitness.mdb

Classes		
Activity	Instructor	Max_size
Control	Cox Kimberley	25
Cycling	Rigney Ben	20
Running	Schulz Matthew	25
Swimming	Cox Kimberley	16
Walking	Bee Ying Te	25
...	...	...

Readings			
ID	Month	RHR	Weight
S00	Apr	60	62
S00	Feb	62	65
S00	Jan	66	64
S01	Apr	58	58
S01	Feb	60	58
S01	Jan	65	60
S02	Apr	58	61
S02	Feb	60	61
S02	Jan	64	60
...	...	...	...

Weight_Chart		
Height	Max_weight	Min_Weight
150	57	45
151	57	45
152	57	45
153	60	47
154	61	47
155	62	48
156	62	48
157	63	49
158	64	50
159	64	51
160	65	52
161	65	52
...	...	...

Clients							
ID	Name	Street	Town	Age	Activity	Sex	Height
S00	Benalong L	8 Marston St	Ingle Farm	38	Walking	F	150
S01	Davis D	25 Pfeiffer St	Enfield	32	Walking	M	160
S02	Langer B	12 Peel St	Prospect	36	Running	M	172
S03	Jiranek D	49 Rankin Rd	Mile End	42	Control	M	180
S04	Inkster S	PO Box 1123	Adelaide	35	Cycling	F	150
S05	Legedza P	3 New St	Freville	40	Swimming	F	156
S06	Golding P	6 Cudow Rd	Elizabeth	43	Walking	M	192
S07	Smith K	5 Old St	Clapham	39	Walking	F	185
S08	Lampard F	55 Blacks Rd	Highbury	34	Running	F	177
S09	HartShorn C	2A Null Crt	Croydon	32	Walking	F	158
S10	Black F	5 Robe Tce	Fitzroy	42	Cycling	M	178
...	...	...	...	...	...	...	...

Using the knowledge on SQL JOINS that you have just learnt, answer the following questions:

**1. Properly identify**

- Activity field in Classes: \_\_\_\_\_
- Height field in Weight\_Chart: \_\_\_\_\_
- Street field in Clients: \_\_\_\_\_
- ID field in Readings: \_\_\_\_\_
- ID field in Clients: \_\_\_\_\_
- Height in Clients: \_\_\_\_\_
- Height in Weight\_Chart: \_\_\_\_\_

**2. Write the Select statement that displays the following:**

- The ID fields of both Clients and Readings tables:  
\_\_\_\_\_
- The Height fields of both Clients and Weight\_Chart tables:  
\_\_\_\_\_
- The Activity fields of both Classes and Clients tables:  
\_\_\_\_\_

**3. Use the method you have been taught to show relationships between the tables:**

**4. How many common fields are there? What are they (remember to properly identify them!)**

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5. Write the WHERE statement that would allow for Clients and Readings to be joined:

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6. Write the WHERE statement that would allow for Clients and Height to be joined:

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7. Write the WHERE statement that would allow for Classes and Clients to be joined:

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8. Would the following SQL statement work?

```
SELECT street .clients, month.readings  
FROM clients  
WHERE clients = readings
```

Yes/No. Why?

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9. Write the correct SQL statement:

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**Consider the fact that if you can add more conditional statements onto a query, by using words such as AND or OR.**

**Work out the following SQL Statements, describing what they would output (an example has been done for you)**

```
SELECT Name, Town  
FROM Clients
```

*Display the name and town of all records in Clients table*

```
1. SELECT Name, Town  
   FROM Clients  
   WHERE Activity="Cycling"  
   AND Town LIKE "*Ing*"
```

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```
2. SELECT Name, Town  
   FROM Clients  
   WHERE Activity="Cycling"  
   OR Town LIKE "*Ing*"
```

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```
3. SELECT clients.ID, classes.instructor  
   FROM clients, instructor  
   WHERE activity = 'walking'  
   OR activity like "cycling"
```

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```
4. SELECT clients.name, readings.weight  
   FROM readings  
   WHERE Activity="Cycling"  
   AND Town LIKE "*Ing & [Enter part of town] & "*"
```

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**In your book, develop the SQL statements that would answer the following questions:**

1. What is the name of F Lampard's instructor?
2. What is the weight of Mrs Benalong in April?
3. What are the ID number of the clients who weighed 65kg?
4. What are the ID number of the clients who weighed 65kg in January?
5. What are the names of the clients who weighed 65kg in January?
6. What are the names of the clients who weighed 65kg or 66kg in January?
7. What is the max\_weight and min\_weight for Mr D Davis?
8. Matthew Schulz, being a bit of a sleaze, wants to know the names and ages of all the females in his class.
9. What was L Benalong's weight in April, February and Jan?

**Extension:** Joining Three Tables together (you will need to use the AND in a slightly different way to normal)

- Output the names, weight, max\_weight, min\_weight of all clients
- Output the names, weight, max\_weight, min\_weight of clients who have names that start with Smi

Now you can write questions for your friends to develop an SQL solution for!

Don't forget to review SQL JOINS on [www.w3schools.com](http://www.w3schools.com)

