

Date:01-03-23

Lesson: Assessment test 2

Course: Jose Portilla's SQL Zero to Hero

Question:

1. How can you retrieve all the information from the cd.facilities table?

Query:

```
SELECT * FROM cd.facilities
```

Result:

	facid [PK] integer	name character varying (100)	membercost numeric	guestcost numeric	initialoutlay numeric	monthlymaintenance numeric
1	0	Tennis Court 1	5	25	10000	200
2	1	Tennis Court 2	5	25	8000	200
3	2	Badminton Court	0	15.5	4000	50
4	3	Table Tennis	0	5	320	10
5	4	Massage Room 1	35	80	4000	3000
6	5	Massage Room 2	35	80	4000	3000
7	6	Squash Court	3.5	17.5	5000	80
8	7	Snooker Table	0	5	450	15
9	8	Pool Table	0	5	400	15

Question:

1. You want to print out a list of all of the facilities and their cost to members. How would you retrieve a list of only facility names and costs?

Query:

```
SELECT name,membercost FROM cd.facilities
```

Result:

	name character varying (100)	membercost numeric
1	Tennis Court 1	5
2	Tennis Court 2	5
3	Badminton Court	0
4	Table Tennis	0
5	Massage Room 1	35
6	Massage Room 2	35
7	Squash Court	3.5
8	Snooker Table	0
9	Pool Table	0

Question:

1. How can you produce a list of facilities that charge a fee to members?  
Expected Results should have just 5 rows:

Query:

```
SELECT * FROM cd.facilities
WHERE membercost>0;
```

Result:

	facid [PK] integer	name character varying (100)	membercost numeric	guestcost numeric	initialoutlay numeric	monthlymaintenance numeric
1	0	Tennis Court 1	5	25	10000	200
2	1	Tennis Court 2	5	25	8000	200
3	4	Massage Room 1	35	80	4000	3000
4	5	Massage Room 2	35	80	4000	3000
5	6	Squash Court	3.5	17.5	5000	80

Question:

1. How can you produce a list of facilities that charge a fee to members,  
and that fee is less than 1/50th of the monthly maintenance cost?  
Return the facid, facility name, member cost, and monthly  
maintenance of the facilities in question.
  - Result is just two rows:

Query:

```
SELECT facid, name, monthlymaintenance, membercost FROM cd.facilities
WHERE membercost > 0 AND membercost < monthlymaintenance*1/50;
```

Result:

	facid [PK] integer	name character varying (100)	monthlymaintenance numeric	membercost numeric
1	4	Massage Room 1	3000	35
2	5	Massage Room 2	3000	35

Question:

1. How can you produce a list of all facilities with the word 'Tennis' in their name?

Query:

```
SELECT * FROM cd.facilities
WHERE name ILIKE '%Tennis%';
```

Result:

	facid [PK] integer	name character varying (100)	membercost numeric	guestcost numeric	initialoutlay numeric	monthlymaintenance numeric
1	0	Tennis Court 1	5	25	10000	200
2	1	Tennis Court 2	5	25	8000	200
3	3	Table Tennis	0	5	320	10

Question:

1. How can you retrieve the details of facilities with ID 1 and 5? Try to do it without using the OR operator.
  - **Expected Result is 2 rows**

Query:

```
SELECT * FROM cd.facilities
WHERE facid IN ('1','5');
```

Result:

	facid [PK] integer	name character varying (100)	membercost numeric	guestcost numeric	initialoutlay numeric	monthlymaintenance numeric
1	1	Tennis Court 2	5	25	8000	200
2	5	Massage Room 2	35	80	4000	3000

Question:

Query:

Result:

Question:

Query:

Result:

Question:

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Result: