Date:01-03-23

Lesson: Assessment test 2

Course: Jose Portilla's SQL Zero to Hero

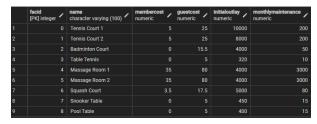
## Question:

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

# Query:

SELECT \* FROM cd.facilities

## Result:



## 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:



## 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		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:

- 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:



## Question:

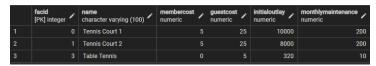
1. How can you produce a list of all facilities with the word 'Tennis' in their name?

Query:

SELECT \* FROM cd.facilities

WHERE name ILIKE '%Tennis%';

## Result:



## 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:



#### Question:

- 1. How can you produce a list of members who joined after the start of September 2012? Return the memid, surname, firstname, and joindate of the members in question.
  - Expected Result is 10 rows (not all are shown below)

## Query:

SELECT memid, surname, firstname, joindate FROM cd.members WHERE joindate>='2012-09-01';

## Result:



## Question:

- 1. How can you produce an ordered list of the first 10 surnames in the members table? The list must not contain duplicates.
  - Expected Result should be 10 rows if you include GUEST as a last name

Query: SELECT DISTINCT(surname) FROM cd.members ORDER BY SURNAME LIMIT 10;

#### Result:

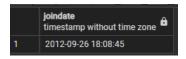


# Question:

- 1. You'd like to get the signup date of your last member. How can you retrieve this information?
  - Expected Result

Query: SELECT joindate FROM cd.members ORDER BY joindate desc LIMIT 1;

#### Result:



## Question:

1. Produce a count of the number of facilities that have a cost to guests of 10 or more.

## Query:

SELECT COUNT(\*) AS num\_facilities FROM cd.facilities WHERE guestcost>=10;

## Result:



#### Question:

- 1. Produce a list of the total number of slots booked per facility in the month of September 2012. Produce an output table consisting of facility id and slots, sorted by the number of slots.
  - Expected Result is 9 rows

## Query:

SELECT facid, SUM(slots) AS num\_facilities FROM cd.bookings WHERE starttime>='2012-09-01'
AND starttime<= '2012-10-01'
GROUP BY facid
ORDER BY SUM(slots);

# Result:

	facid integer	num_facilities bigint
1	5	122
2	3	422
3	7	426
4	8	471
5	6	540
6	2	570
7	1	588
8	0	591
9	4	648

# Question:

- 1. Produce a list of facilities with more than 1000 slots booked. Produce an output table consisting of facility id and total slots, sorted by facility id.
  - Expected Result is 5 rows

Query:

SELECT facid, SUM(slots) AS num\_facilities FROM cd.bookings GROUP BY facid HAVING SUM(slots)>1000 ORDER BY facid;

## Result:

	facid integer	num_facilities bigint
1	0	1320
2	1	1278
3	2	1209
4	4	1404
5	6	1104

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٦.	How can you produce a list of the start times for bookings for tennis
	courts, for the date '2012-09-21'? Return a list of start time and facility
	name pairings, ordered by the time.

# • Expected Result is 12 rows

Query:		
Result:		
Question:		
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