User and database creation

Go to postgreSQL: http://www.student.famnit.upr.si/phppgadmin/

Login as:

user: OPBvaje pass: OPBvaje

Click on the server "PostgreSQL" \rightarrow on the top right click on the "SQL"

Create an username with a password

Execute each of these two lines separately.

CREATE USER "user_name" WITH PASSWORD 'set_password' CREATEDB SUPERUSER; CREATE DATABASE "name_database" WITH OWNER "user_name" TEMPLATE opb_19_20;

Logout and login with a new created username.

Exercises:

The following scheme is given.

members

memid	integer	<u> </u>	7				fac	ilities
surname	character varying(200)	$] \ $		boo	okings	_	facid	integer
firstname	character varying(200)	\	١١	facid	integer	Ш	name	character varying(100)
address	character varying(300)		∟	memid	integer		membercost	numeric
zipcode	integer			starttime	timestamp		guestcost	numeric
telephone	character varying(20)] /		slots	integer		initialoutlay	numeric
recommendedby	integer	\bigvee			I	J	monthlymaintenance	numeric
joindate	timestamp							

1. Retrieve all the information from the facilities table

CELECT *	facid	name	membercost	guestcost	initialoutlay	monthlymaintenance
SELECT *	0	Tennis Court 1	5	25	10000	200
From Facilities;	1	Tennis Court 2	5	25	8000	200
1 Tom 1 domaios,	2	Badminton Court	0	15.5	4000	50
	3	Table Tennis	0	5	320	10
	4	Massage Room 1	35	80	4000	3000
	5	Massage Room 2	35	80	4000	3000
	6	Squash Court	3.5	17.5	5000	80
	7	Snooker Table	0	5	450	15
	8	Pool Table	0	5	400	15

2. Print out a list of all of the facilities and their cost to members.

SELECT names, membercost	membercost
SELECT names, membercost	5
From Facilities; Tennis Court 2	5
Badminton Court	0
Table Tennis	0
Massage Room 1	35
Massage Room 2	35
Squash Court Squash Court	3.5
Snooker Table	0
Pool Table	0

3. Produce a list of facilities that charge a fee to members.

SELCET names	name
	Tennis Court 1
FROM facilities	Tennis Court 2
WHERE membercost > 0;	Massage Room 1
	Massage Room 2
	Squash Court

 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.

	facid	name	membercost	monthlymaintenance	٦
	4 1	Massage Room 1	35	3000	
	5 1	Massage Room 2	35	3000	

5. Produce a list of all facilities with the word 'Tennis' in their name.

name
Tennis Court 1
Tennis Court 2
Table Tennis

6. Retrieve the details of facilities with ID 1 and 5? Do no use the OR operator

Tennis Court 2 5 25 8000 2 Massage Room 2 35 80 4000 30
Massage Room 2 35 80 4000 30

7. Produce a list of members who joined after the start of September 2012. Return the memid, surname, firstname, and joindate of the members.

Ramnaresh 2012-09-01 08:44:42 Douglas 2012-09-02 18:43:05 Henrietta 2012-09-05 08:42:35 David 2012-09-15 08:22:05 nyth Henry 2012-09-17 12:27:15 Millicent 2012-09-18 19:04:01 Hyacinth 2012-09-18 19:32:05
Henrietta 2012-09-05 08:42:35 David 2012-09-15 08:22:05 nyth Henry 2012-09-17 12:27:15 Millicent 2012-09-18 19:04:01
David 2012-09-15 08:22:05 hyth Henry 2012-09-17 12:27:15 Millicent 2012-09-18 19:04:01
nyth Henry 2012-09-17 12:27:15 Millicent 2012-09-18 19:04:01
Millicent 2012-09-18 19:04:01
Hyacinth 2012-09-18 19:32:05
John 2012-09-19 11:32:45
Erica 2012-09-22 08:36:38
Darren 2012-09-26 18:08:45

8.	Produce an ordered list of the first 10 surnames in the members table	e? The list must not
	contain duplicates.	
		surname
		Bader Baker
		Boothe
		Butters Coplin
		Crumpet
		Dare Farrell
		Genting
		GUEST
9.	Return a combined list of all surnames and all facility names.	
		combined Tennis Court 2
		Worthington-Smyth Badminton Court
		Pinker Dare
		Bader Mackenzie Crumpet
		Massage Room 1 Squash Court
		Tracy
		Tupperware Smith
		Butters Rownam
		Baker Genting
		Purview Coplin
		Massage Room 2 Joplette
		Stibbons Rumney
		Pool Table Sarwin
		Boothe Farrell
		Tennis Court 1 Snooker Table Owen
		Table Tennis GUEST
		Jones
10.	Retrieve the signup date of your last member.	
		latest
		2012-09-26 18:08:45
11	. Figure out how many facilities exist – (produce a total count).	1
	(produce a total country)	Γ
		coun
12.	. Produce a count of the number of facilities that have a cost to guests	of 10 or more.
		count 6

	Produce a count of the number of recommendations each member has made. number of recommendations.	Order by
		id coun 1 2 3 3 4 5 6 9 111 13 15 16 20
		30
14	Produce a list of the total number of slots booked per facility.	
14.	For now, just produce an output table consisting of facility id and slots, sorted	by facility
		facid Tot Sic 0 13 1 12 2 12 3 8 4 14 5 2 6 11 7 9 8 9
15.	Produce a list of the total number of slots booked per facility in the month of S 2012. Produce an output table consisting of facility id and slots, sorted by the r slots.	-
		facid Tot Slo 5 1 3 4 7 4 8 4 6 5 2 5
		0 5
16.	Produce a list of the total number of slots booked per facility per month in the 2012. Produce an output table consisting of facility id and slots, sorted by the i	year of
16.	· · · · · · · · · · · · · · · · · · ·	year of

17. Print out the total numb	per of members who have made at least one booking.
	cour 3
	s with more than 1000 slots booked. Produce an output table nd hours, sorted by facility id.
	facid Tot Slo
	0 13
	1 12 2 12
	4 14
	6 11
19. Output the facility id tha	at has the highest number of slots booked.