**1.**

**SELECT \* FROM cd.facilities**

0 "Tennis Court 1" 5 25 10000 200

1 "Tennis Court 2" 5 25 8000 200

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

**2**.

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

"Tennis Court 1" 5

"Tennis Court 2" 5

"Badminton Court" 0

"Table Tennis" 0

"Massage Room 1" 35

"Massage Room 2" 35

"Squash Court" 3.5

"Snooker Table" 0

"Pool Table" 0

**3.**

**SELECT \* FROM cd.facilities**

**WHERE membercost > 0**

0 "Tennis Court 1" 5 25 10000 200

1 "Tennis Court 2" 5 25 8000 200

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

**4.**

**SELECT facid, name,membercost,monthlymaintenance FROM cd.facilities**

**WHERE membercost > 0 AND (membercost < monthlymaintenance/50)**

4 "Massage Room 1" 35 3000

5 "Massage Room 2" 35 3000

**5.**

**SELECT \* FROM cd.facilities**

**WHERE name LIKE '%Tennis%'**

0 "Tennis Court 1" 5 25 10000 200

1 "Tennis Court 2" 5 25 8000 200

3 "Table Tennis" 0 5 320 10

**6.**

**SELECT \* FROM cd.facilities**

**WHERE facid IN (1,5)**

1 "Tennis Court 2" 5 25 8000 200

5 "Massage Room 2" 35 80 4000 3000

**7.**

**SELECT memid,surname,firstname,joindate FROM cd.members**

**WHERE joindate > ('2012-09-01')**

24 "Sarwin" "Ramnaresh" "2012-09-01 08:44:42"

26 "Jones" "Douglas" "2012-09-02 18:43:05"

27 "Rumney" "Henrietta" "2012-09-05 08:42:35"

28 "Farrell" "David" "2012-09-15 08:22:05"

29 "Worthington-Smyth" "Henry" "2012-09-17 12:27:15"

30 "Purview" "Millicent" "2012-09-18 19:04:01"

33 "Tupperware" "Hyacinth" "2012-09-18 19:32:05"

35 "Hunt" "John" "2012-09-19 11:32:45"

36 "Crumpet" "Erica" "2012-09-22 08:36:38"

37 "Smith" "Darren" "2012-09-26 18:08:45"

**8.**

**SELECT DISTINCT surname FROM cd.members**

**ORDER BY surname**

**LIMIT 10**

"Bader"

"Baker"

"Boothe"

"Butters"

"Coplin"

"Crumpet"

"Dare"

"Farrell"

"Genting"

"GUEST"

**9.**

**SELECT max(joindate)**

**FROM cd.members**

"2012-09-26 18:08:45"

**10.**

**SELECT COUNT(facid) FROM cd.facilities**

**WHERE guestcost >= 10**

6

**11.**

**SELECT facid, SUM(slots) AS Totalslots**

**FROM cd.bookings**

**WHERE cd.bookings.starttime BETWEEN '2012-09-01' AND '2012-09-30'**

**GROUP by facid**

**ORDER BY SUM(slots)**

**12.**

**SELECT facid,SUM(slots) AS Totalslots FROM cd.bookings**

**GROUP BY facid**

**HAVING SUM(slots) > 1000**

**ORDER BY facid**

0 1320

1 1278

2 1209

4 1404

6 1104

**13.**

**SELECT starttime,name FROM cd.bookings**

**INNER JOIN cd.facilities ON cd.facilities.facid = cd.bookings.facid**

**WHERE name LIKE '%Tennis Court%' AND starttime BETWEEN '2012-09-21' AND '2012-09-21'**

**ORDER BY starttime**

**14.**

**SELECT starttime,surname,firstname FROM cd.bookings**

**INNER JOIN cd.members ON cd.members.memid = cd.bookings.memid**

**WHERE surname LIKE '%Farrell%' AND firstname LIKE '%David%'**

"2012-09-18 09:00:00" "Farrell" "David"

"2012-09-18 13:30:00" "Farrell" "David"

"2012-09-18 17:30:00" "Farrell" "David"

"2012-09-18 20:00:00" "Farrell" "David"

"2012-09-19 09:30:00" "Farrell" "David"

"2012-09-19 12:00:00" "Farrell" "David"

"2012-09-19 15:00:00" "Farrell" "David"

"2012-09-20 11:30:00" "Farrell" "David"

"2012-09-20 14:00:00" "Farrell" "David"

"2012-09-20 15:30:00" "Farrell" "David"

"2012-09-21 10:30:00" "Farrell" "David"

"2012-09-21 14:00:00" "Farrell" "David"

"2012-09-22 08:30:00" "Farrell" "David"

"2012-09-22 17:00:00" "Farrell" "David"

"2012-09-23 08:30:00" "Farrell" "David"

"2012-09-23 17:30:00" "Farrell" "David"

"2012-09-23 19:00:00" "Farrell" "David"

"2012-09-24 08:00:00" "Farrell" "David"

"2012-09-24 12:30:00" "Farrell" "David"

"2012-09-24 16:30:00" "Farrell" "David"

"2012-09-25 15:30:00" "Farrell" "David"

"2012-09-25 17:00:00" "Farrell" "David"

"2012-09-26 13:00:00" "Farrell" "David"

**CREATING DATABASE**

CREATE TABLE Teachers(

Teacher\_id SERIAL PRIMARY KEY,

first\_name varchar(50),

last\_name varchar(50),

homeroom\_number int,

department varchar(50),

email varchar(250) UNIQUE NOT NULL,

phone varchar(50) UNIQUE

)

CREATE TABLE Students(

student\_id SERIAL PRIMARY KEY,

first\_name varchar(50),

last\_name varchar(50),

homeroom\_number int,

email varchar(250) UNIQUE ,

phone varchar(50) UNIQUE,

graduation\_year int

)

INSERT INTO students(student\_id,first\_name,last\_name,homeroom\_number,phone,graduation\_year)

VALUES

(1,'Mark','Watney',5,7775551234,2035)

INSERT INTO teachers(teacher\_id,first\_name,last\_name,homeroom\_number,department,email,phone)

VALUES

(1,'Jonas','Salk',5,'Biology','jsalk@school.org',7775554321)

1 "Jonas" "Salk" 5 "Biology" "jsalk@school.org" "7775554321"