FSW-140 WEEK2 "SQL Practice #1
RAFAEL FERNANDEZ

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

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

Expected Results

facid	name	membercost	guestcost	initialoutlay	monthlymaintenance
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
8	Pool Table	0	5	400	15

Your Answer ✔

Hint Help Save Run Query

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

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. 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?

Question

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?

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

Expected Results

name	membercost
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

Your Answer ✔

Hint | Help | Save | Run Query

```
select name, membercost from cd.facilities;
```

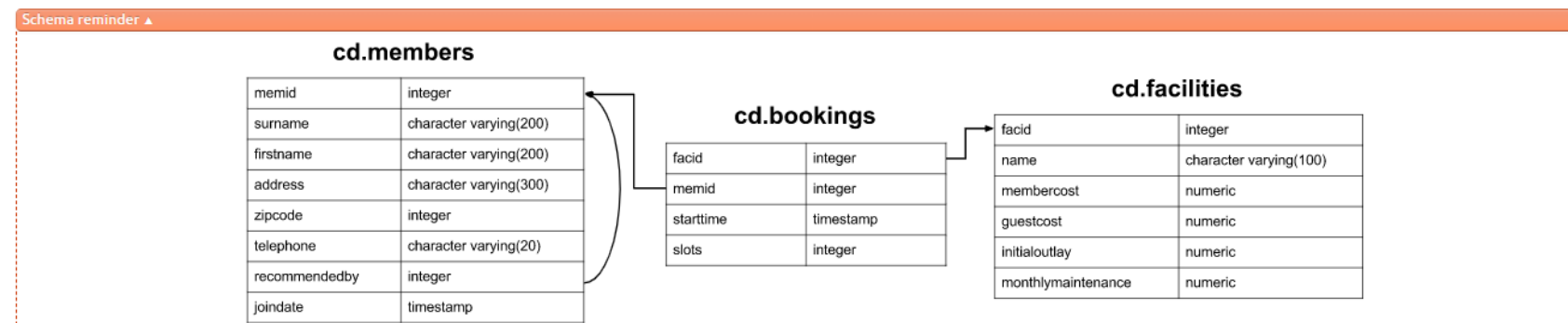| Table Tennis	0
Massage Room 1	35
Massage Room 2	35
Squash Court	3.5
Snooker Table	0
Pool Table	0

2

FSW-140 WEEK2 "SQL Practice #1
RAFAEL FERNANDEZ

3. How can you produce a list of facilities that charge a fee to members?

Question

How can you produce a list of facilities that charge a fee to members?

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

4. Correct answer:
 SELECT * FROM cd.facilities
 WHERE membercost > 0;

Expected Results

facid	name	membercost	guestcost	initialoutlay	monthlymaintenance
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

Your Answer ✖

[Hint] [Help] [Save] [Run Query]

```
SELECT facid, membercost, initialoutlay from cd.facilities;
```

facid	membercost	initialoutlay
0	5	10000
1	5	8000
2	0	4000
3	0	320
4	35	4000

3

4 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

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.

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

4 . Correct answer: SELECT facid, name, membercost, monthlymaintenance **FROM** cd.facilities **WHERE** membercost > 0 **AND** (membercost < monthlymaintenance/50.0);

Expected Results

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

Your Answer ✖

Hint | Help | Save | Run Query

```
SELECT * from cd.facilities where membercost > 1.5;
```

| facid | name | membercost | guestcost | initialoutlay | monthlymaintenance |

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

Question

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

Expected Results

facid	name	membercost	guestcost	initialoutlay
0	Tennis Court 1	5	25	10000
1	Tennis Court 2	5	25	8000
3	Table Tennis	0	5	320

Your Answer ✔

Hint   Help   Save   Run Query

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

5

6. How can you retrieve the details of facilities with ID 1 and 5? Try to do it without using the OR operator.

Question

How can you retrieve the details of facilities with ID 1 and 5? Try to do it without using the OR operator.

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

Expected Results

facid	name	membercost	guestcost	initialoutlay	monthlymaintenance
1	Tennis Court 2	5	25	8000	200
5	Massage Room 2	35	80	4000	3000

Your Answer ✔

Hint | Help | Save | Run Query

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

7. How can you produce a list of facilities, with each labelled as 'cheap' or 'expensive' depending on if their monthly maintenance cost is more than $100? Return the name and

Question

How can you produce a list of facilities, with each labelled as 'cheap' or 'expensive' depending on if their monthly maintenance cost is more than $100? Return the name and monthly maintenance of the facilities in question.

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

Expected Results

name	cost
Tennis Court 1	expensive
Tennis Court 2	expensive
Badminton Court	cheap
Table Tennis	cheap
Massage Room 1	expensive
Massage Room 2	expensive
Squash Court	cheap
Snooker Table	cheap
Pool Table	cheap

Your Answer ✔

Hint Help Save Run Query

```
SELECT name,
    case when (monthlymaintenance > 100) then
        'expensive'
    else
        'cheap'
    end as cost
    from cd.facilities;
```

name	cost
Tennis Court 1	expensive
Tennis Court 2	expensive
Badminton Court	cheap
Table Tennis	cheap
Massage Room 1	expensive

7

8. 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**?**

Question

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.

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

Expected Results

memid	surname	firstname	joindate
24	Sarwin	Ramnaresh	2012-09-01 08:44:4
26	Jones	Douglas	2012-09-02 18:43:0
27	Rumney	Henrietta	2012-09-05 08:42:3
28	Farrell	David	2012-09-15 08:22:0
29	Worthington-Smyth	Henry	2012-09-17 12:27:1

Your Answer ✔

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

8

9. How can you produce an ordered list of the first 10 surnames in the members table? The list must not contain duplicates.

Question

How can you produce an ordered list of the first 10 surnames in the members table? The list must not contain duplicates.

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

Expected Results

surname
Bader
Baker
Boothe
Butters

Your Answer ✔

Hint   Help   Save   Run Query

```
SELECT DISTINCT surname FROM cd.members ORDER BY surname limit 10;
```

10. You, for some reason, want a combined list of all surnames and all facility names. Yes, this is a contrived example :-). Produce that list

Question

You, for some reason, want a combined list of all surnames and all facility names. Yes, this is a contrived example :-).
Produce that list!

Your Answer ✔

```
SELECT surname  FROM  cd.members UNION SELECT name  FROM cd.facilities;
```

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

Question

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

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

Expected Results

latest
2012-09-26 18:08:45

Your Answer ✔

Hint Help Save Run Query

```
SELECT max(joindate) AS latest FROM cd.members;
```

latest
2012-09-26 18:08:45

11

12. You'd like to get the first and last name of the last member(s) who signed up - not just the date. How can you do that?

Question

You'd like to get the first and last name of the last member(s) who signed up - not just the date. How can you do that?

Schema reminder ▲

cd.members

memid	integer
surname	character varying(200)
firstname	character varying(200)
address	character varying(300)
zipcode	integer
telephone	character varying(20)
recommendedby	integer
joindate	timestamp

cd.bookings

facid	integer
memid	integer
starttime	timestamp
slots	integer

cd.facilities

facid	integer
name	character varying(100)
membercost	numeric
guestcost	numeric
initialoutlay	numeric
monthlymaintenance	numeric

Expected Results

firstname	surname	joindate
Darren	Smith	2012-09-26 18:08:45

Your Answer ✓

Hint Help Save Run Query

```
SELECT firstname, surname, joindate FROM cd.members WHERE joindate =
(SELECT max(joindate) FROM cd.members);
```

12