Week 3 SQL Practice #1

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

Query: SELECT \* FROM cd.facilities

Columns: 6

Rows: 9

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;

Columns: 2

Rows: 9

1. How can you produce a list of facilities that charge a fee to members? //show membercost that is greater than 0

**Query: select** facid, name, membercost **from** cd.facilities **where** membercost > 0;

Columns: 3

Rows: 5

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.

**Query: select** facid, name, membercost, monthlymaintenance **from** cd.facilities **where** membercost > 0 **and** (membercost < monthlymaintenance/50.0);

Columns: 4

Rows: 2

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

**Query: select** name **from** cd.facilities **where** name **like** '%Tennis%';

Columns: 1

Rows: 3

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

**Query: select** facid, name **from** cd.facilities **where** facid **in** (1,5);

Columns: 2

Rows: 2

1. 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.

Query: **select** name, **case** **when** (monthlymaintenance > 100) **then** 'expensive' **else** 'cheap' **end** **as** cost **from** cd.facilities;

Columns: 2

Rows: 9

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.

Query: **select** memid, surname, firstname, joindate **from** cd.members **where** joindate >= '2012-09-01';

Columns: 4

Rows: 10

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

Query: **select** **distinct** surname **from** cd.members **order** **by** surname limit 10;

Columns: 1

Rows: 10

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

Query: **select** surname **from** cd.members **union** **select** name **from** cd.facilities;

Columns: 1

Rows: 34

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

Query: **select** max(joindate) **as** latest **from** cd.members;

Columns: 1

Rows: 1

13. 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?

Query: **select** firstname, surname, joindate **from** cd.members **where** joindate = (**select** max(joindate) **from** cd.members);

Columns: 3

Rows: 1