**SQL Assessment Test 2**

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

ANSWER

SELECT \*

FROM cd.facilities;

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?

ANSWER

SELECT DISTINCT(name), membercost

FROM cd.facilities;

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

ANSWER

SELECT \*

FROM cd.facilities

WHERE membercost > 0;

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.

ANSWER

SELECT facid, name, membercost, monthlymaintenance

FROM cd.facilities

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

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

ANSWER

SELECT \*

FROM cd.facilities

WHERE name LIKE '%Tennis%';

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

ANSWER

SELECT \*

FROM cd.facilities

WHERE facid = 1 OR facid = 5;

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.

ANSWER

SELECT memid, surname, firstname, joindate

FROM cd.members

WHERE joindate >= '2012-09-01';

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

ANSWER

SELECT DISTINCT(surname)

FROM cd.members

ORDER BY surname ASC

LIMIT 10;

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

ANSWER

SELECT joindate

FROM cd.members

ORDER BY joindate DESC

LIMIT 1;

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

ANSWER

SELECT COUNT(\*)

FROM cd.facilities

WHERE guestcost >= 10

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.

ANSWER

SELECT facid, SUM(slots)

FROM cd.bookings

WHERE starttime >= '2012-09-01' AND starttime <= '2021-10-01 '

GROUP BY facid;

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.

ANSWER

SELECT facid, SUM(slots) AS total\_slots

FROM cd.bookings

GROUP BY facid

HAVING SUM(slots) >= 1000

ORDER BY facid;

1. 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.

ANSWER

SELECT starttime, name

FROM cd.bookings

INNER JOIN cd.facilities

ON cd.bookings.facid = cd.facilities.facid

WHERE starttime >= '2012-09-21' AND starttime < '2012-09-22' AND name LIKE '%Tennis Court%'

ORDER BY starttime;

1. How can you produce a list of the start times for bookings by members named 'David Farrell'?

ANSWER

SELECT starttime, firstname, surname

FROM cd.bookings

INNER JOIN cd.members

ON cd.bookings.memid = cd.members.memid

WHERE firstname = 'David' AND surname = 'Farrell';