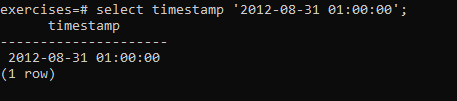
**PostgreSQL Assignment**

**CLUBDATA**

**Date Working with Timestamps**

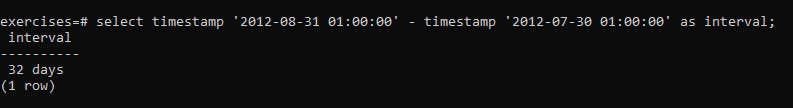
**1.[Produce a timestamp for 1 a.m. on the 31st of August 2012](https://pgexercises.com/questions/date/timestamp.html)**

select timestamp '2012-08-31 01:00:00';

****

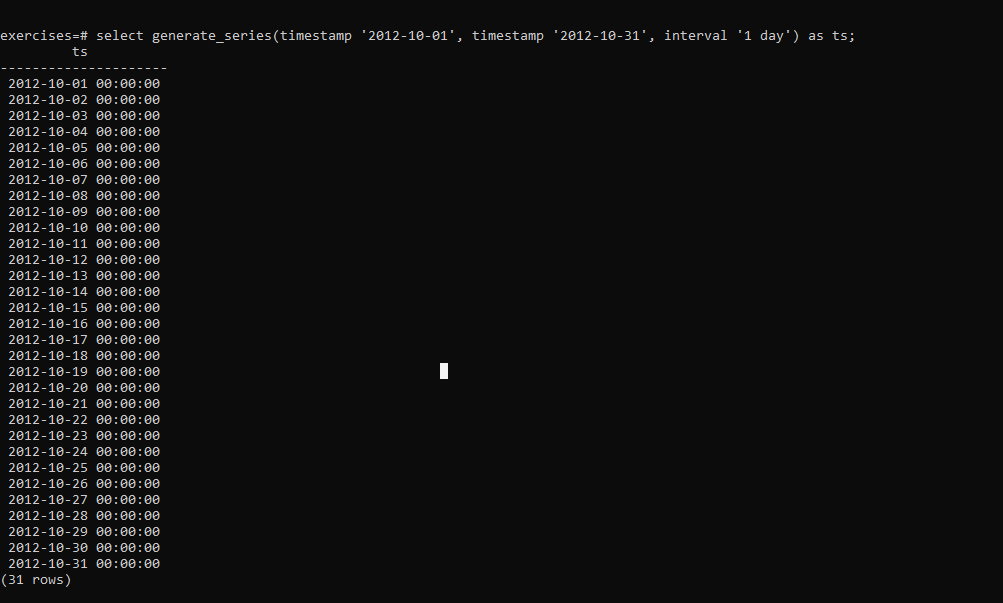
**2.[Subtract timestamps from each other](https://pgexercises.com/questions/date/interval.html)**

select timestamp '2012-08-31 01:00:00' - timestamp '2012-07-30 01:00:00' as interval;

****

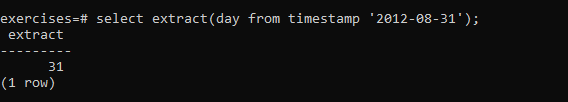
**3.[Generate a list of all the dates in October 2012](https://pgexercises.com/questions/date/series.html)**

select generate\_series(timestamp '2012-10-01', timestamp '2012-10-31', interval '1 day') as ts;

****

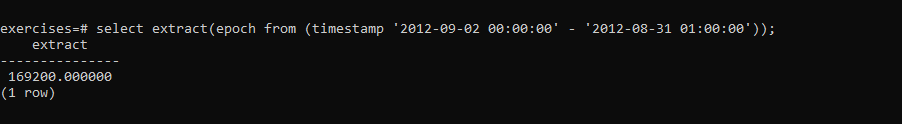
**4.[Get the day of the month from a timestamp](https://pgexercises.com/questions/date/extract.html)**

select extract(day from timestamp '2012-08-31');

****

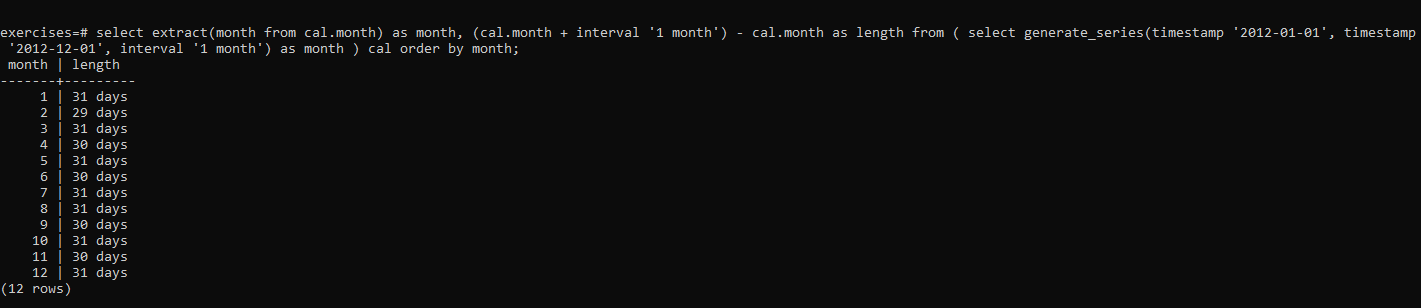
**5.[Work out the number of seconds between timestamps](https://pgexercises.com/questions/date/interval2.html)**

select extract(epoch from (timestamp '2012-09-02 00:00:00' - '2012-08-31 01:00:00'));

****

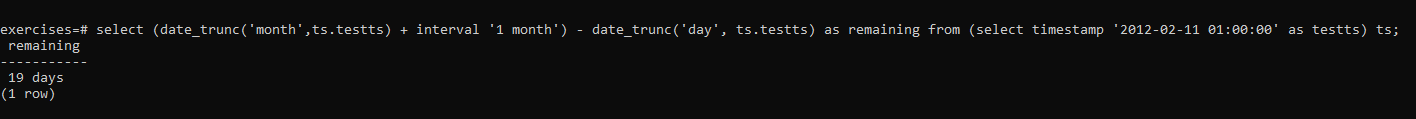
**6.[Work out the number of days in each month of 2012](https://pgexercises.com/questions/date/daysinmonth.html)**

select extract(month from cal.month) as month, (cal.month + interval '1 month') - cal.month as length from ( select generate\_series(timestamp '2012-01-01', timestamp '2012-12-01', interval '1 month') as month ) cal order by month;

****

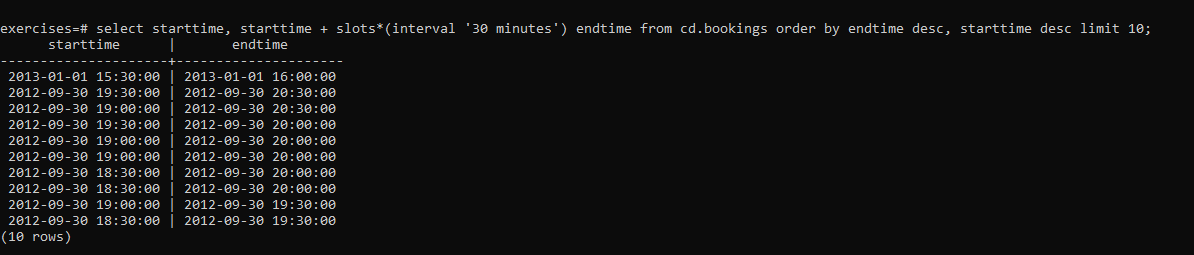
**7.[Work out the number of days remaining in the month](https://pgexercises.com/questions/date/daysremaining.html)**

select (date\_trunc('month',ts.testts) + interval '1 month') - date\_trunc('day', ts.testts) as remaining from (select timestamp '2012-02-11 01:00:00' as testts) ts;

****

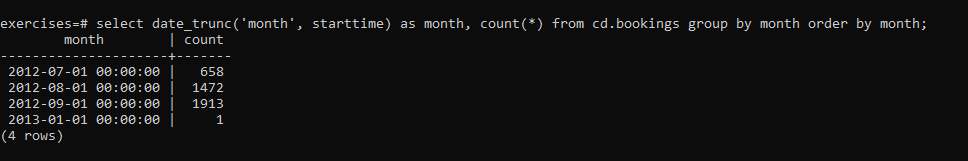
**8.[Work out the end time of bookings](https://pgexercises.com/questions/date/endtimes.html)**

select starttime, starttime + slots\*(interval '30 minutes') endtime from cd.bookings order by endtime desc, starttime desc limit 10;

****

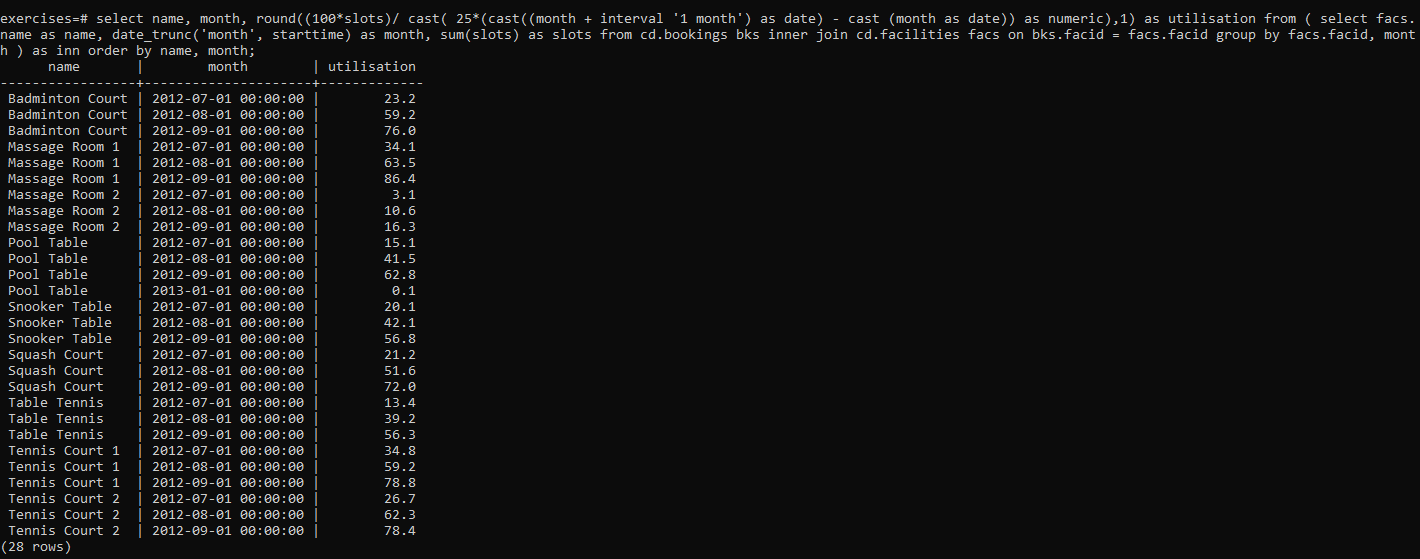
**9.[Return a count of bookings for each month](https://pgexercises.com/questions/date/bookingspermonth.html)**

select date\_trunc('month', starttime) as month, count(\*) from cd.bookings group by month order by month;

****

**10.**[**Work out the utilisation percentage for each facility by month**](https://pgexercises.com/questions/date/utilisationpermonth.html)

select name, month, round((100\*slots)/ cast( 25\*(cast((month + interval '1 month') as date) - cast (month as date)) as numeric),1) as utilisation from ( select facs.name as name, date\_trunc('month', starttime) as month, sum(slots) as slots from cd.bookings bks inner join cd.facilities facs on bks.facid = facs.facid group by facs.facid, month ) as inn order by name, month;

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