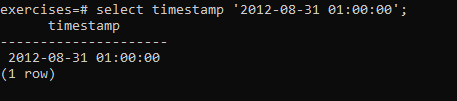
**Date Working with Timestamps**

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

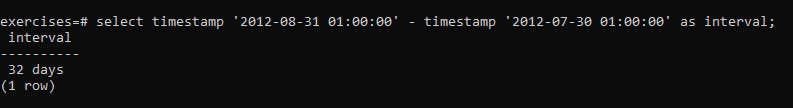
**Query:** select timestamp '2012-08-31 01:00:00';

**SQLOUTPUT: **

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

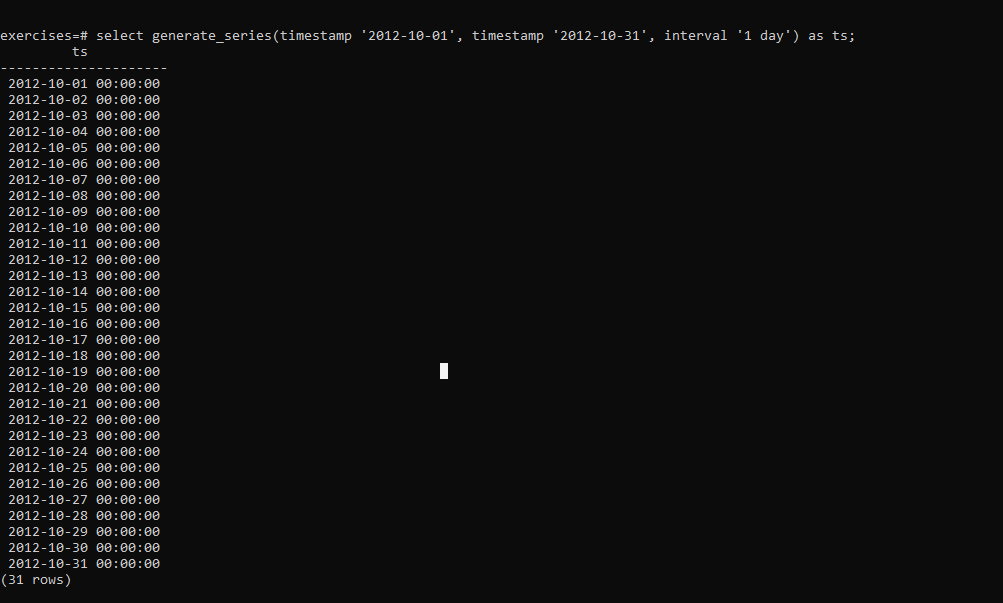
**Query:** select timestamp '2012-08-31 01:00:00' - timestamp '2012-07-30 01:00:00' as interval;

**SQLOUTPUT:**

****

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

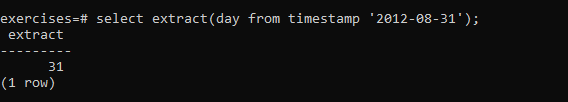
**Query:** select generate\_series(timestamp '2012-10-01', timestamp '2012-10-31', interval '1 day') as ts;

**SQLOUTPUT: **

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

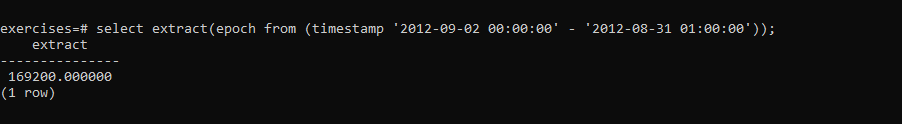
**Query:** select extract(day from timestamp '2012-08-31');

**SQLOUTPUT:**

****

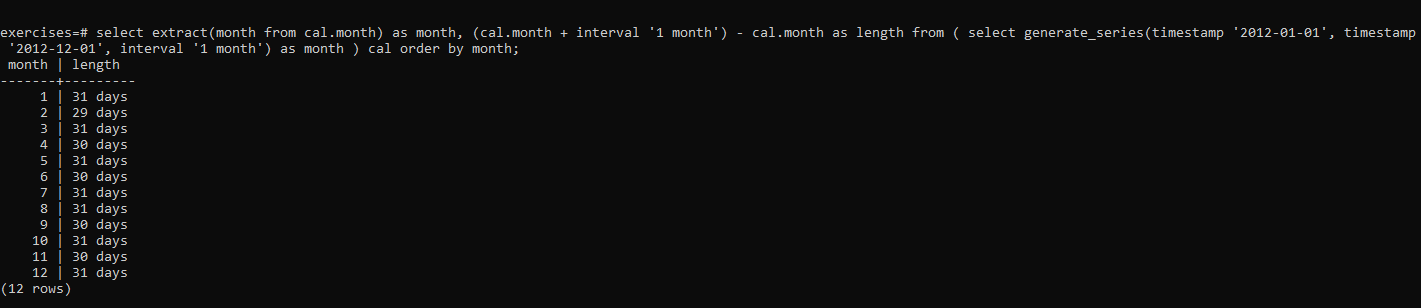
**5.**[**Work out the number of seconds between timestamps**](https://pgexercises.com/questions/date/interval2.html)

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

**SQLOUTPUT: **

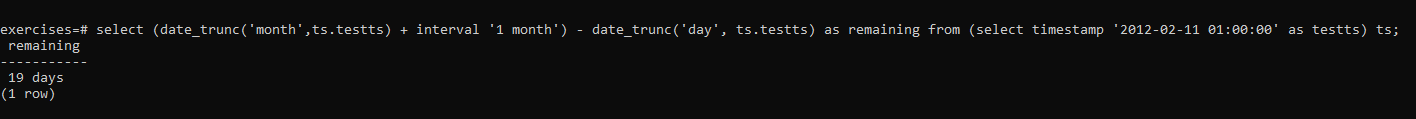
**6.**[**Work out the number of days in each month of 2012**](https://pgexercises.com/questions/date/daysinmonth.html)

**Query:** 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;

**SQLOUTPUT: **

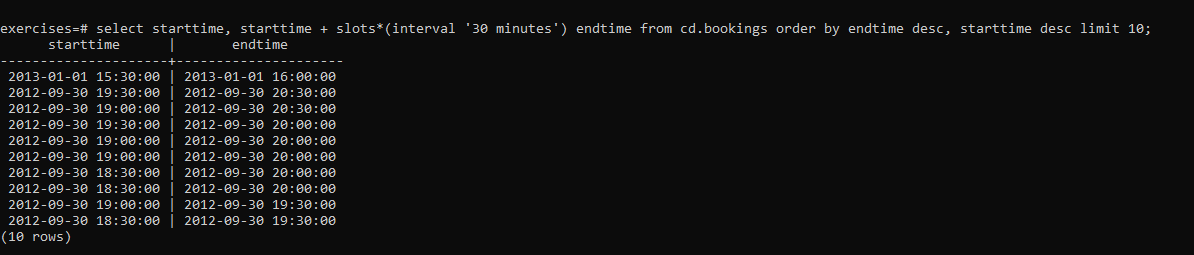
**7.**[**Work out the number of days remaining in the month**](https://pgexercises.com/questions/date/daysremaining.html)

**Query:** 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;

**SQLOUTPUT: **

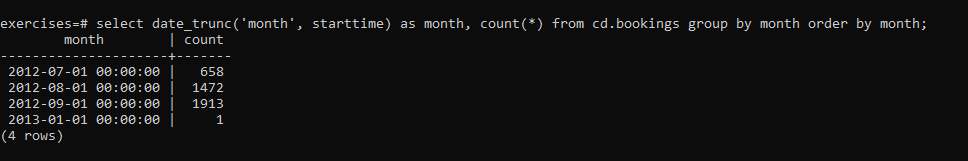
**8.**[**Work out the end time of bookings**](https://pgexercises.com/questions/date/endtimes.html)

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

**SQLOUTPUT: **

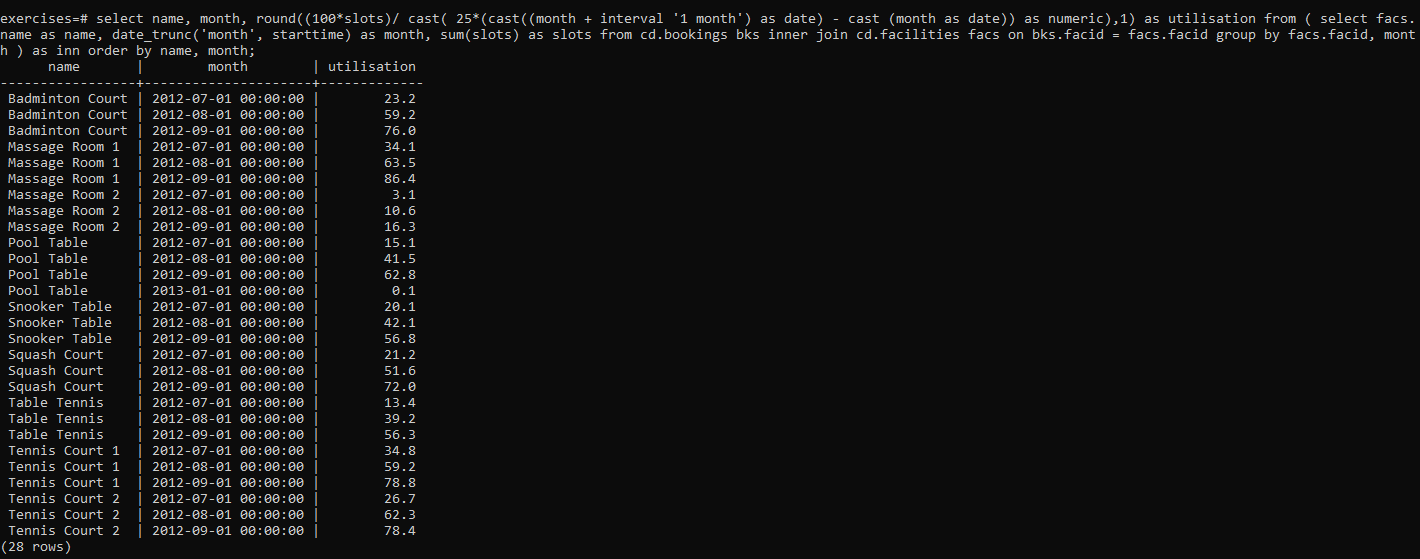
**9.**[**Return a count of bookings for each month**](https://pgexercises.com/questions/date/bookingspermonth.html)

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

**SQLOUTPUT: **

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

**Query:** 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;

**SQLOUTPUT: **