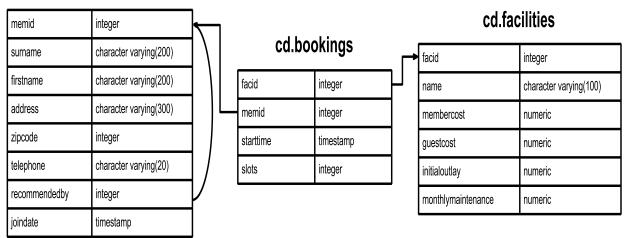
## **Day-16**

## **SQL Date**

## **PGEXERCISE.COM**

## cd.members



Exercise: https://pgexercises.com/questions/date/

1. Produce a timestamp for 1 a.m. on the 31st of August 2012.

select cast ('2012-08-31 01:00:00' as timestamp);

2. Find the result of subtracting the timestamp '2012-07-30 01:00:00' from the timestamp '2012-08-31 01:00:00'

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

3. Produce a list of all the dates in October 2012. They can be output as a timestamp (with time set to midnight) or a date.

```
select generate_series(timestamp '2012-10-01', timestamp '2012-10-31', interval '1 day') as ts;
```

**4.** Get the day of the month from the timestamp '2012-08-31' as an integer.

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

5. Work out the number of seconds between the timestamps '2012-08-31 01:00:00' and '2012-09-02 00:00:00'

```
select extract(day from ts.int)*60*60*24 +
extract(hour from ts.int) * 60 * 60 +
extract (minute from ts.int) * 60 +
extract( second from ts.int)
from (
select timestamp '2012-09-02 00:00:00' - '2012-08-31 01:00:00' as int ) ts;
```

6. For each month of the year in 2012, output the number of days in that month. Format the output as an integer column containing the month of the year, and a second column containing an interval data type.

```
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;
```