

```
create database projects;
```

```
use projects;
```

```
select * from project;
```

```
alter table project rename column `call duration in minutes` to call_duration;
```

```
select count(*) as total_record from project;
```

```
select call_timestamp, year(call_timestamp) from project;
```

```
set sql_safe_updates=0;
```

```
update project set call_timestamp=str_to_date(call_timestamp,"%m/%d/%Y");
```

```
select call_timestamp, year(call_timestamp) from project;
```

```
select * from project limit 5;
```

```
update project set csat_score=null where csat_score=0;
```

```
select distinct call_center from project;
```

```
select distinct sentiment from project;
```

```
select distinct avg(call_duration) from project;
```

-- total number of calls in each call centre

```
select call_center,count(*) as total_num_calls from project group by  
call_center;
```

-- find callcenter with maximum number of calls

```
select call_center,count(*) as total_call from project group by call_center  
order by total_call desc ;
```

-- find total numner of call from each sentiments and -- percentage of all calls

```
select sentiment,count(*) from project group by sentiment order by 2 desc;  
select sentiment,count(*)/32941*100 from project group by sentiment ;  
select count(*) as total_record from project;
```

-- total number of call bye channel

```
select channel,count(*) as totalcall from project group by channel;  
select channel,count(*) as totalcall,count(*)/32941*100 as percentage from  
project group by channel;
```

-- reason data from project

-- - call for billing was about 71% where as for service outage and
payments where 14% each

```
select distinct reason from project;
```

select distinct reason,count() as totalbilling from project group by reason
order by totalbilling desc;*

select distinct reason,count(),round((count(*)/(select count(*) from
project)*100,1) as percentage from project group by reason;*

select distinct channel,count(),round((count(*)/(select count(*) from
project)*100,1) as percentage from project group by channel;*

select call_center,count() as totalcall from project group by call_center
order by 2 desc;*

*select * from project;*

select state,count() as top5 from project group by state order by 2 desc
limit 5;*

select state, city,count() as top5 from project group by state,city order by
2 desc ;*

select channel,min(call_duration) from project group by channel;

select sentiment,count() from project group by sentiment;*

select customer_name,csat_score from project order by 2 desc limit 5;

select customer_name,call_duration from project order by 2 desc limit 5;

*select channel, min(call_duration) as mincall, max(call_duration) as maxcall,
avg(call_duration) as maxcall from project group by channel;*

*select channel, min(csat_score) as mincall, max(csat_score) as maxcall,
round(avg(csat_score),2) as maxcall from project group by channel;*

```
select sentiment, min(csat_score) as mincall, max(csat_score) as maxcall,  
round(avg(csat_score),2) as avgcall from project group by sentiment;
```

```
select year(call_timestamp), count(*) from project group by  
year(call_timestamp);
```

```
select year(call_timestamp),sum(call_duration) from project group by  
year(call_timestamp);
```

```
alter table project add column year varchar(100);
```

```
update project set year=substring_index(call_timestamp,"-",1);
```

```
select * from project;
```

```
select year,sum(call_duration) from project group by year;
```