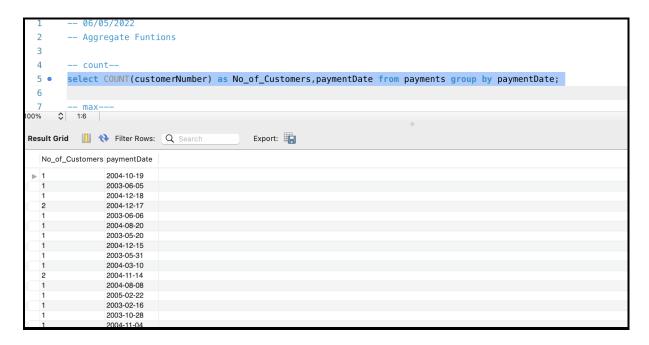
## -- 06/05/2022

-- Aggregate Funtions

### -- count--

select COUNT(customerNumber) as No\_of\_Customers,paymentDate from payments group by paymentDate;



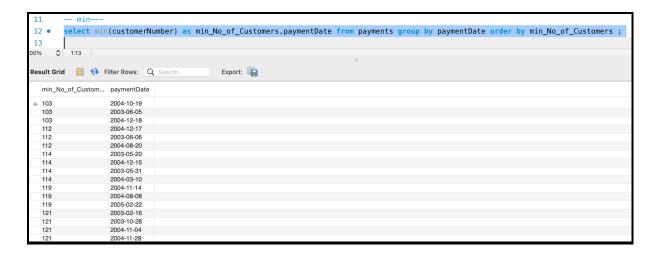
#### -- max---

select MAX(customerNumber) as Max\_No\_of\_Customers,paymentDate from payments group by paymentDate order by Max\_No\_of\_Customers desc;



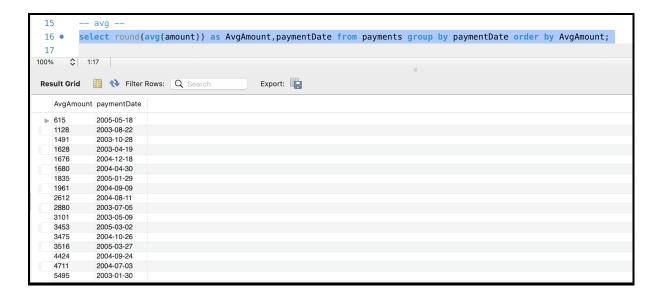
#### --- min----

select min(customerNumber) as min\_No\_of\_Customers,paymentDate from payments group by paymentDate order by min\_No\_of\_Customers ;



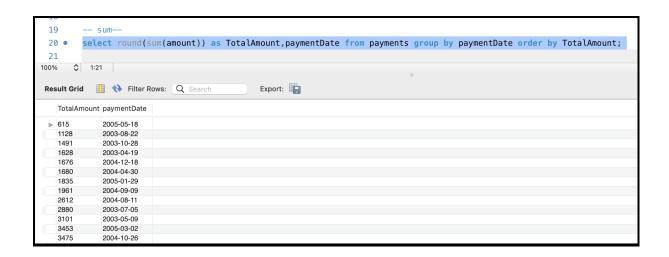
### -- avg --

select round(avg(amount)) as AvgAmount,paymentDate from payments group by paymentDate order by AvgAmount;



## -- sum--

select round(sum(amount)) as TotalAmount,paymentDate from payments group by paymentDate order by TotalAmount;



# --- CASE WHEN---

# Select amount,

case

when amount > 100000 then "High"

when amount > 50000 and amount <100000 then "Medium"

when amount <50000 then "low"

else "very less"

end as AmountStatus

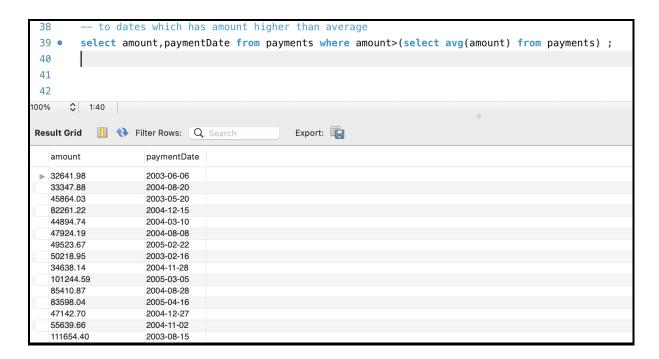
from payments;

```
-- CASE WHEN--
        Select amount,
        case
        when amount > 100000 then "High"
        when amount > 50000 and amount <100000 then "Medium"
        when amount <50000 then "low"
      else "very less"
 29
 30 end as AmountStatus
       from payments;
 31
 32
      $ 1:21
100%
amount Amou...
 ▶ 6066.78 low
   14571.44 low
   1676.14 low
   14191.12 low
   32641.98 low
   33347.88 low
   45864.03 low
   82261.22 Medium
   7565.08 low
   44894.74 low
   19501.82 low
   47924.19 low
   49523.67 low
   50218.95 Medium
   1491.38 low
   17876.32 low
```

## -- SubQueries

## -- to return second maximum amount

select max(amount) as SecondMax from payments where amount<(select max(amount) from payments);



## -- to get dates which has amount higher than average

select amount,paymentDate from payments where amount>(select avg(amount) from payments);



### select customerNumber,city from

(select customerNumber,customerName,city,country from customers where city="Paris"or city="NYC")as tab1;

## —--String functions—

```
select length("hello");
select lower("HELLO");
select upper("hi guys");
select ltrim(" hi guys"); # removes whitespace from left side
select rtrim("hi guys. "); # removes whitespace from right side
select trim(" hi guys "); # removes whitespace from both sides
select trim(" hi guys "); # removes whitespace from both sides
SELECT REPLACE('SQL Tutorial', 'SQL', 'MYSQL');
SELECT CONCAT('SQL', ' is', ' fun!', ' in', 'ways');
```

SELECT SUBSTRING(customerName, 1, 10) AS ExtractString from customers;

```
-- String functions

select length("hello");

select lower("HELLO");

select upper("hi guys");

select ltrim(" hi guys"); # removes whitespace from left side

select rtrim("hi guys. "); # removes whitespace from right side

select trim(" hi guys "); # removes whitespace from both sides

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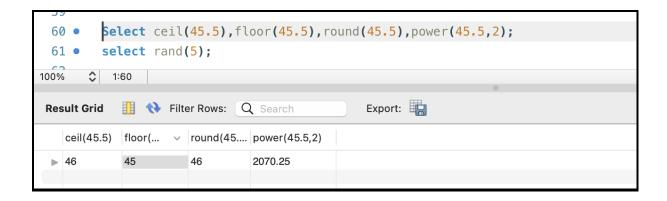
SELECT CONCAT('SQL', ' is', ' fun!', ' in', 'ways');

SELECT SUBSTRING(customerName, 1, 10) AS ExtractString from customers;

-- List Aggregation doesnt work in MYSQL
```

### -- Mathematic Functions

Select ceil(45.5),floor(45.5),round(45.5),power(45.5,2); select rand(5);



## -- date time functions

select current\_timestamp();

SELECT current\_date();

SELECT curdate();

63 64 •	<pre> date time functions select current_timestamp();</pre>
65 •	<pre>SELECT current_date();</pre>
66 •	<pre>SELECT curdate();</pre>
67	
130%	23:65
Result Grid	
curda	te()
▶ 2022-05-06	

### -- EXTRACT FUNTION

SELECT EXTRACT(DAY FROM "2017-06-15");

SELECT EXTRACT(WEEK FROM "2017-06-15");

SELECT EXTRACT(MONTH FROM "2017-06-15");

SELECT EXTRACT(YEAR FROM "2017-06-15");

```
-- EXTRACT FUNTION
 68
        SELECT EXTRACT(DAY FROM "2017-06-15");
 69 •
 70 • SELECT EXTRACT (WEEK FROM "2017-06-15");
 71 • SELECT EXTRACT (MONTH FROM "2017-06-15");
        SELECT EXTRACT (YEAR FROM "2017-06-15");
 72 •
 73
 74
 75
 76
100%
      34:72
                                             Export:
           Filter Rows: Q Search
Result Grid
   EXTRACT(YEAR FROM "2017-06-15")
 ▶ 2017
```

### ---- PATTERN MATCHING-

SELECT customerName from customers where customerName like 'A%'; SELECT customerName from customers where customerName like 'A\_s%';

