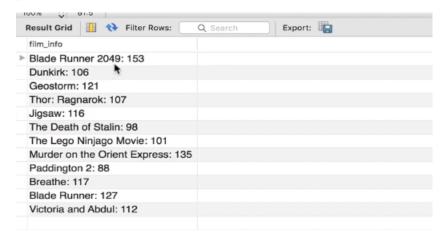
```
#### UPPER, LOWER
    Syntax- SELECT UPPER(col1) AS new_col FROM table;
   SELECT UPPER('Hello World'); -- HELLO WORLD
   SELECT LOWER('Hello World'); -- hello world
    SELECT CONCAT('MY FAVORITE BOOK IS ', UPPER(title)) FROM books;
### CONCAT, CONCAT+ALIAS, CONCAT_WS, CONCAT+SUBSTRING+ALIAS
    Syntax - CONCAT(column, anotherColumn)
   SELECT CONCAT(author_fname,'<can enter any string>', author_lname) FROM books;
   SELECT author_fname AS first, author_lname AS last, CONCAT (author_fname, author_lname
 AS fullname FROM books;
    SELECT CONCAT WS (' - ', title, author fname, author lname) FROM books;
                                                                              evenly s
paced with a symbol
    SELECT
        CONCAT
           SUBSTRING(title, 1, 10),
        ) AS 'short title'
       FROM books;
   SUBSTRING('Hello World', 1, 4) - Hell
    SUBSTRING('Hello World', 7) - World
    SUBSTRING('Hello World', -3) - rld
    SELECT name FROM films;
    SELECT SUBSTRING(name,1,3) AS short_name FROM films;
```

-- Concatenate the film names and length from the films table.

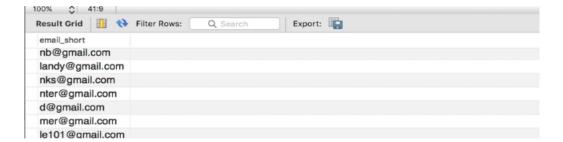
SELECT CONCAT(name,": ",length_min) AS film_info FROM films; I



2.

-- Extract the customers email from the 5th character onwards.

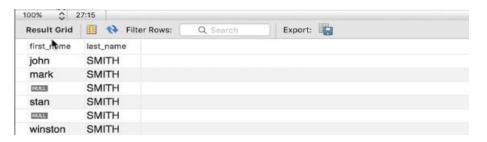
SELECT SUBSTRING(email,) AS email_short FROM customers;



3.

- -- Select the customers first name in lower case and their last name in upper case
- -- for each customer with a last name of 'Smith'.

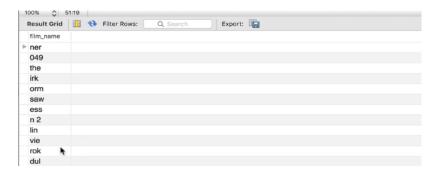
SELECT LOWER(first_name) AS first_name, UPPER(last_name) AS last_name FROM customers WHERE last_name = 'Smith';



4.

-- Select the last 3 letters of each film name from the films table.

SELECT SUBSTRING(name,-3) AS film_name FROM films;



5.

- -- Concatenate the first three letters in the first_name and last_name columns together
- -- from the customers table.

SELECT CONCAT(SUBSTRING(first_name,1,3)," ",SUBSTRING(last_name,1,3)) AS short_name FROM customers; $| ^{\top}$



DATE FUCTIONS

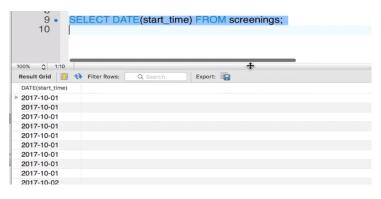
```
#### MYSQL FUNCTIONS
SELECT * FROM screenings
WHERE DATE(start_time) ='2017-10-03';

SELECT * FROM screenings
WHERE MONTH(start_time)='10';

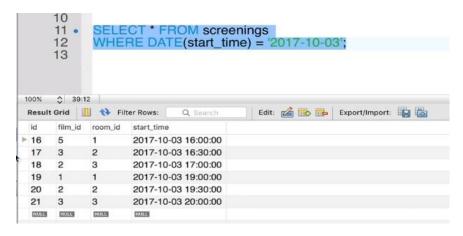
SELECT * FROM screenings
WHERE YEAR(start_time) ='2017' - returns all data of 2017 year
```

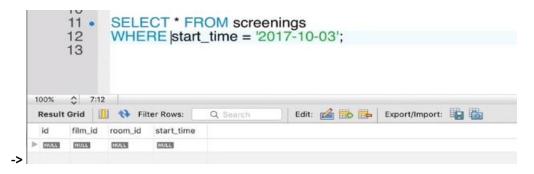
data





adding WHERER

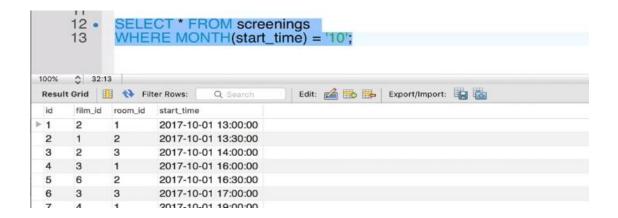




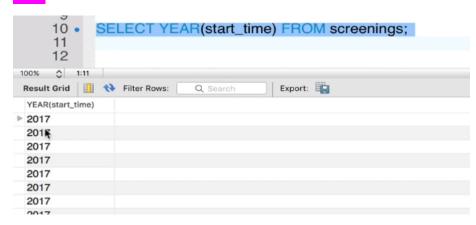
using BETWEEN AND DATE



MONTH FUNCTIONS



YEAR



EXs;

1.

```
2
              -- Select the film id and start time from the screenings table for the date of 20th of October 2017.
        4 .
              SELECT film_id, start_time FROM screenings
        5
              WHERE DATE(start_time) = '2017-10-20';
 100% 🗘 39:5
 Export:
                              Q Search
  film_id start_time
        2017-10-20 16:00:00
 ⊳ 1
  1
        2017-10-20 16:30:00
  8
        2017-10-20 17:00:00
      2017-10-20 19:00:00
  2
  6
        2017-10-20 19:30:00
     2017-10-20 20:00:00
2.
             -- Select all the data from the screenings table for the start time between the 6th and 13th of
       8
             -- October 2017.
       9
             SELECT * FROM screenings WHERE DATE(start_time) BETWEEN '2017-10-06' AND '2017-10-13';
      10 .
      11
   id
        film_id room_id
                      start_time
  ▶ 34
                       2017-10-06 16:00:00
               2
   35
        5
                      2017-10-06 16:30:00
   36
        2
               3
                      2017-10-06 17:00:00
   37
        4
               1
                      2017-10-06 19:00:00
   38
        2
               2
                      2017-10-06 19:30:00
   39
                     2017-10-06 20:00:00
                      2017-10-07 13:00:00
   40
        2
               1
   41
        1
               2
                      2017-10-07 13:30:00
                      2017-10-07 14:00:00
   42
               3
  81
       7
             3
                    2017-10-12 20:00:00
                     2017-10-13 16:00:00
  82
       5
  83
       2
             2
                    2017-10-13 16:30:00
  84
              3
                     2017-10-13 17:00:00
  85
       9
                     2017-10-13 19:00:00
  86
                     2017-10-13 19:30:00
3.
       13
               -- Select all the data from the screenings table for October 2017.
```

