

## Database Systems Lab-03

## Topic:

- Mapping two or more tables
- Case-Conversion Functions: LOWER, UPPER, INITCAP

Function	Result
LOWER('MySQL Lab')	mysql lab
UPPER('MySQL Lab')	MYSQL LAB
INITCAP('MySQL Lab')	Mysql Lab

• Character-Manipulation Functions: CONCAT, SUBSTR, LENGTH, INSTR, LPAD | RPAD, TRIM, REPLACE

Function	Result
CONCAT('Hello', 'World')	HelloWorld
SUBSTR('HelloWorld',1,5)	Hello
LENGTH('HelloWorld')	10
<pre>INSTR('HelloWorld', 'W')</pre>	6
LPAD(salary,10,'*')	****24000
RPAD(salary, 10, '*')	24000****
REPLACE ('JACK and JUE','J','BL')	BLACK and BLUE
TRIM('H' FROM 'HelloWorld')	elloWorld

• Number Functions: ROUND, TRUNC, MOD



Function	Result
ROUND(45.926, 2)	45.93
TRUNC (45.926, 2)	45.92
MOD(1600, 300)	100

## • Date function:

Function	Result
SYSDATE()	2022-02-22 18:22:45
CURDATE()	2022-02-22
DATEDIFF('2022-02-23',' '2020-04-22')	672
DATE_SUB(CURDATE(), INTERVAL 5 MONTH)	2021-09-23
DATE_ADD(CURDATE(), INTERVAL 5 MONTH)	2022-07-23

Aggregate Functions: AVG(), MIN(), MAX(), SUM(), COUNT()

## Queries for exercise:

- 1. What is the address, district and phone number of each of the customers?
- 2. What is the city and country of each of the customers?
- 3. List all the films by every actor
- 4. Display the first and last name of each actor in a single column in upper case letters
- 5. Show "The capital of A is B" where A is the name of country and B is its capital from country table
  - a. In upper case
  - b. Lower case
- 6. What is the length of the password of the account of each staff?
- 7. What is the length of the email address of the customers without domain name?
- 8. Round the population of the countries in million
- 9. Show the life expectancy in years only for each continent
- 10. What is your age in months?
- 11. What is the date after 167 days?
- 12. What is the total population of each district? (Use city table)
- 13. How many districts in each country? (Use city table)
- 14. What is the total population of each continent?
- 15. Which country has the maximum population?
- 16. What is the average population of the world?
- 17. What is the minimum life expectancy of the world?
- 18. How many actors acted in each film? (hints: use film\_actor table)



- 19. What is the minimum length of a film?
- 20. What is the average rating of the film?