- 1. Create a database named company and a table named employees with the following fields:
  - id (INT, Primary Key, Auto Increment)
  - name (VARCHAR(100))
  - position (VARCHAR(100))
  - salary (DECIMAL(10,2))
  - date\_of\_joining (DATE)

create database company;

use company;

create table employees(id int not null unique, name varchar(100), position varchar(100),

salary decimal(10,2), date\_of\_joining date);

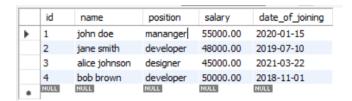
- 2. Insert the following data into the employees table:
  - John Doe, Manager, 55000.00, 2020-01-15
  - Jane Smith, Developer, 48000.00, 2019-07-10
  - Alice Johnson, Designer, 45000.00, 2021-03-22
  - Bob Brown, Developer, 50000.00, 2018-11-01

insert into employees(id,name,position,salary,date\_of\_joining) values(1,"john doe","mananger",55000.00,"2020-01-15");

insert into employees(id,name,position,salary,date\_of\_joining) values(2,"jane smith","developer",48000.00,"2019-07-10");

insert into employees(id,name,position,salary,date\_of\_joining) values(3,"alice johnson","designer",45000.00,"2021-03-22");

insert into employees(id,name,position,salary,date\_of\_joining) values(4,"bob brown","developer",50000.00,"2018-11-01");



#### 3. Write a query to retrieve all employees who are Developers

select \* from employees where position ="developer";

select \* from employees

	id	name	position	salary	date_of_joining
•	2	jane smith	developer	48000.00	2019-07-10
	4	bob brown	developer	50000.00	2018-11-01
	NULL	NULL	NULL	NULL	NULL

### 4. Write a query to update the salary of Alice Johnson to 46000.00.

update employees

set salary=46000.00 where id =3;

	id	name	position	salary	date_of_joining
•	1	john doe	mananger	55000.00	2020-01-15
	2	jane smith	developer	48000.00	2019-07-10
	3	alice johnson	designer	46000.00	2021-03-22
	4	bob brown	developer	50000.00	2018-11-01

#### 5. Write a query to delete the employee record for Bob Brown.

delete from employees where id=4;

	id	name	position	salary	date_of_joining
•	1	john doe	mananger	55000.00	2020-01-15
	2	jane smith	developer	48000.00	2019-07-10
	3	alice johnson	designer	46000.00	2021-03-22
	NULL	NULL	NULL	NULL	NULL

# 6. Write a query to find the employees who have a salary greater than 48000

select \* from employees where salary>48000.00;

	id	name	position	salary	date_of_joining
•	1	john doe	mananger	55000.00	2020-01-15
	NULL	NULL	NULL	NULL	NULL

#### 7. Write a query to add a new column email to the employees table.

Alter Table employees

add email varchar (20);

	id	name	position	salary	date_of_joining	email
•	1	john doe	mananger	55000.00	2020-01-15	NULL
	2	jane smith	developer	48000.00	2019-07-10	NULL
	3	alice johnson	designer	46000.00	2021-03-22	NULL
	NULL	NULL	NULL	NULL	NULL	NULL

# 8. Write a query to update the email for John Doe to john.doe@company.com.

set sql\_safe\_updates=0;

update employees

set email="john.doe@company.com" where id=1;

	id	name	position	salary	date_of_joining	email
•	1	john doe	mananger	55000.00	2020-01-15	john.doe@company.com
	2	jane smith	developer	48000.00	2019-07-10	NULL
	3	alice johnson	designer	46000.00	2021-03-22	NULL
	NULL	NULL	NULL	HULL	HULL	HULL

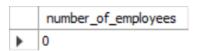
#### 9. Write a query to retrieve only the name and salary of all employees.

select name, salary from employees;

	name	salary
•	john doe	55000.00
	jane smith	48000.00
	alice johnson	46000.00

# 10. Write a query to count the number of employees who joined after January 1, 2020.

select count(\*) number\_of\_employees from employees where date\_of\_joining >"2022-01-01";



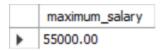
### 11. Write a query to order the employees by salary in descending order.

alter table employees drop email;

	id	name	position	salary	date_of_joining
•	1	john doe	mananger	55000.00	2020-01-15
	2	jane smith	developer	48000.00	2019-07-10
	3	alice johnson	designer	46000.00	2021-03-22
	NULL	NULL	NULL	NULL	NULL

# 12. Write a query to drop the email column from the employees table.

select max(salary) as maximum\_salary from employees;



### 13. Write a query to find the employee with the highest salary.

SELECT \* FROM employees WHERE salary = (SELECT MAX(salary) FROM employees);

	id	name	position	salary	date_of_joining
•	1	john doe	mananger	55000.00	2020-01-15
	NULL	NULL	NULL	NULL	NULL