Lab 2

Exercise

1. Create "lab2_co" database.
2. Create "Student" Table with the following attributes:
   - **Student_NO ,unique**
   - **Student_Name , no null**
   - **Student_Address.**
3. Adding "Student gender" Attribute to the table.
4. changing the data type of "Student_Address" Attribute to be char (100)
5. Set "Student_gender" default value ='f'.

Lab 3

1. **Create a database (company_lab3)**
2. **Create two tables in the database:**

   Employee: (e_name , employee_no , Salary, e_gender)

   Department : (d_No , d_name , manager)

   In Employee table:

   - **Salary should be > 1500**
   - **employee_no should be unique**
   - **Default value for the gender is female**

   In Department table:

   d_No doesn't accept null value

3. **Fill each table with 3 records**
4. **Drop the constraint of default value in Employee table**
3. **Delete the male employee in Employee table**

Exercise

In Department table:

d_No doesn't accept null value

3. Fill each table with 3 records

4.Drop the constraint of default value in Employee table

3. Delete the male employee in Employee table

Lab 4

Exercise

1. Create a data base (company_lab4_2022)
2. Create two tables in the database:

Employee•

employee_no	e_name	Salary	phone
1456	Ahmad	4000	0555558888
1457	Khaled	4500	0555553333
1458	Ahmad	3000	0555554444
1459	Mohamed	6000	0555555777

department•

d_no	d_name	manager_no
1	CS	1457
2	IS	1459

Note: employee_no and d_no primary key

3.Retrieve all the attribute values from each table.

4.Select all records from Employee table using ascending order on Salary.

5.Retrieve employee_no and Salary where their employee name is 'Ahmad'.

Lab 5

Exercise

3. Select all records from Employee table which their name is ‘Ahamd’ and their salary is 4000.

4. Show the resulting of Adding 2000 for salary to all employees their name is end with 'd’.

5. Retrieve employee no and name where employee name contain 'ma‘.

6. Retrieve all information for employees between ‘Khaled’ and ‘Mohamed’ and haven't phone number

Exercise

3. Select all records from Employee table which their name is ‘Ahamd’ and their salary is 4000.

4. Show the resulting of Adding 2000 for salary to all employees their name is end with 'd’.

5. Retrieve employee no and name where employee name contain 'ma‘.

6. Retrieve all information for employees between ‘Khaled’ and ‘Mohamed’ and haven't phone number

Lab 6

Exercise

1. Create a data base (company)
2. Create two tables in the database:

Employee•

employee_no	e_name	Salary	phone	d_no
1456	Ahmad	4000	0555558888	1
1457	Khaled	4500	0555553333	2
1458	Ahmad	3000	0555554444	3
1459	Mohamed	6000	0555555777	4

Department•

d_no	d_name	manager_no
1	CS	1457
2	IS	1459
3	SE	1444
4	CS	1433
5	CS	1411

Note: d_no in Department is primary key.

3. Retrieve the different e_name from Employee using descending order on Salary.

4.Drop Salary attribute from Employee.

5. Retrieve all d_no from the " Employee " and the "Department“?

6. Retrieve d_no that can be found in " Employee " and "Department“?

7. Retrieve all d_no from the " Department " ? In different SQL query Retrieve all d_no from the " Employee “? Then use Except between these queries?

8. Rename Employee and Department with the following names: ‘E’ and ‘D’ respectively. Then, retrieve the d_no from the two tables in one SQL statement.

Lab 7

Exercise

1. Create the following table(Std_grades) in new Database lab7_2022

ID	First name	Last name	mark
0615	Amera	majed	98
0513	Wafa	ahmad	56
0713	Abeer	salem	96
0533	ohood	ahmad	86

Exercise

2. Display the student information who's mark > the average

3. Count the number of student and name it Count

4. Create a view that display the student ID if they get A+ and display it

5. Display the first and last name for student that had the minimum mark.

Lab 8

1. Create a data base (company)
2. Create two tables in the database:

employee_no	e_name	Salary	phone	d_no
1456	Ahmad	4000	0555558888	1
1457	Khaled	4500	0555553333	2
1458	Ahmad	3000	0555554444	3
1459	Mohamed	6000	0555555777	4
1460	Noor	5000	0555553334	2
1461	Waleed	7000	0555553222	NULL

d_no	d_name	manager_no
1	CS	1457
2	IS	1459
3	SE	1444
4	NT	1433
5	SS	1411

3. Retrieve e_name ,d_no from Employee and d_name from department by Inner ,left and right join?
4. Retrieve the employees that work in department CS.
5. Retrieve the manager of department where the employee Noor works.

- Note: d_no in Department is primary key.

Lab 9

Exercise

1. Create a data base (company)
2. Create two tables in the database:

Employee•

employee_no	e_name	Salary	phone	d_no
1456	Ahmad	4000	0555558888	1
1457	Khaled	4500	0555553333	2
1458	Ahmad	3000	0555554444	3
1459	Mohamed	6000	0555555777	4
1460	Noor	5000	0555553334	2

Department•

d_no	d_name	manager_no
1	CS	1457
2	IS	1459
3	SE	1444
4	CS	1433
5	CS	1411

Note: d_no in Department is primary key.

3.Retrieve all the attribute values from each table.

4. Display sum of salaries for each department where the sum of salaries more than 6000?

5. Retrieve the details of employees whose salary is greater than the minimum salary of the employees working in dept number 2 and also he is not working in dept number 2

6. Display the average salary of employees for each department where their average more than 3000?

7. Write a query that will display the employee name, dno, salary for employees whose work in a department !=4 and salary more of all employee average salary whose works in dno=4.