# Structure Query Language (SQL)

Lecturer: Zainab Khyioon Abd alrdha

# **Example of Left Outer Join**

The class table,

ID	NAME
1	abhi
2	adam
3	alex
4	anu
5	ashish

The class\_info table,

ID	Address
1	DELHI
2	MUMBAI
3	CHENNAI
7	NOIDA
8	PANIPAT

Left Outer Join query will be,

SELECT \* FROM class LEFT OUTER JOIN class\_info ON (class.id=class\_info .id);

The result table will look like,

ID	NAME	ID	Address
1	abhi	1	DELHI
2	adam	2	MUMBAI

**Lecture six** 

Lecturer: Zainab Khyioon Abd alrdha

3	alex	3	CHENNAI
4	anu	null	null
5	ashish	null	null

## 6.15.5.2 Right Outer Join

The right outer join returns a result table with the **matched data** of two tables then remaining rows of the **right table** and null for the **left** table's columns.

Right Outer Join Syntax is,

select column-name-list

from table-name1

#### **RIGHT OUTER JOIN**

table-name2

on table-name1.column-name = table-name2.column-name;

Right outer Join Syntax for Oracle is,

select column-name-list

from table-name1,

table-name2

on table-name1.column-name(+) = table-name2.column-name;

# **Example of Right Outer Join**

The class table,

ID	NAME
1	abhi
2	adam
3	alex
4	anu
5	ashish

The class\_info table,

ID	Address
1	DELHI
2	MUMBAI
3	CHENNAI
7	NOIDA
8	PANIPAT

Right Outer Join query will be,

SELECT \* FROM class RIGHT OUTER JOIN class\_info on (class.id=class\_info.id);

The result table will look like,

ID	NAME	ID	Address
1	abhi	1	DELHI
2	adam	2	MUMBAI
3	alex	3	CHENNAI
null	null	7	NOIDA
null	null	8	PANIPAT

#### 6.15.3 Full Outer Join

The full outer join returns a result table with the **matched data** of two table then remaining rows of both **left** table and then the **right** table.

Full Outer Join Syntax is,

select column-name-list

from table-name1

#### **FULL OUTER JOIN**

table-name2

on table-name1.column-name = table-name2.column-name;

## Example of Full outer join is,

The class table,

ID	NAME
1	abhi
2	adam
3	alex

Lecturer: khalidah ali ahmed

Lecturer: Zainab Khyioon Abd alrdha

4	anu
5	ashish

The class\_info table,

ID	Address
1	DELHI
2	MUMBAI
3	CHENNAI
7	NOIDA
8	PANIPAT

**Full Outer Join** query will be like,

**Lecture six** 

SELECT \* FROM class F ULL OUTER JOIN class\_i nfo on (class.id=class\_i nfo.id);

The result table will

## look like,

ID	NAME	ID	Address
1	abhi	1	DELHI
2	adam	2	MUMBAI
3	alex	3	CHENNAI
4	anu	null	null
5	ashish	null	null
Null	null	7	NOIDA
Null	null	8	PANIPAT

### 6.16 SQL Alias

Alias is used to give an alias name to a table or a column. This is quite useful in case of large or complex queries. Alias is mainly used for giving a short alias name for a column or a table with complex names.

Syntax of Alias for table names,

#### **SELECT** column-name

from table-name

#### as alias-name

Following is an Example using Alias,

SELECT \* from Employee\_detail as ed;

Alias syntax for columns will be like,

#### **SELECT**

column-name as alias-name

fromtable-name

Example using alias for columns,

SELECT customer\_id as **cid** from Emp;

## **Example of Alias in SQL Query**

Consider the following two tables,

The class table, The class info table,

ID	Name
1	abhi
2	adam
3	alex
4	anu

ID	Address
1	DELHI
2	MUMBAI
3	CHENNAI
7	NOIDA

Lecturer: khalidah ali ahmed web designs Lecture six

Lecturer: Zainab Khyioon Abd alrdha

5	ashish	8	PANIPAT

Below is the Query to fetch data from both the tables using SQL Alias, SELECT C.id, C.Name, Ci.Address from Class as C, Class\_info as Ci where C .id=Ci.id;

Result table look like,

ID	Name	Address
1	abhi	DELHI
2	adam	MUMBAI
3	alex	CHENNAI

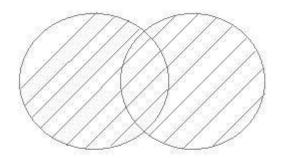
## 6.17 Set Operation in SQL

SQL supports few Set operations to be performed on table data. These are used to get meaningful results from data, under different special conditions.

Lecturer: Zainab Khyioon Abd alrdha

#### 6.17.1 Union

UNION is used to combine the results of two or more Select statements. However it will eliminate duplicate rows from its result set. In case of union, number of columns and data type must be same in both the tables.



## **Example of UNION**

The **First** table,

ID	Name
1	Abhi
2	Adam

#### The **Second** table,

ID	Name
2	adam
3	Chester

Union SQL query will be,

select \* from First

Lecturer: Zainab Khyioon Abd alrdha

## **UNION**

select \* from second

The result table will look like,

ID	NAME
1	abhi
2	adam
3	Chester