

L12 : Joining Tables

1-Tut : SQL Query - 1

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Problem Statement:

Enlist all the employees ID's, names along with the Project allocated to them.

Information about the table:

Table Employee:

EmpID	EmpFname	EmpLname	Age	EmailID	PhoneNo	City
1	Riya	Khanna	21	riya@abc.com	987655443	Delhi
2	Sahil	Kumar	32	sahil@abc.com	987657643	Mumbai
3	Vishwas	Aanand	24	vishwas@abc.com	987658871	Kolkata
4	Harleen	Kaur	27	harleen@abc.com	987677585	Bengaluru
5	Priyanshu	Gupta	23	priyanshu@abc.com	956758556	Hyderabad

Table Project:


ProjectID	EmpID	ProjectName	ProjectStartDate	ClientID
100	1	pro_1	2021-04-21	3
200	2	pro_2	2021-03-12	1
300	3	pro_3	2021-01-16	5
400	3	pro_4	2021-04-27	2
500	5	pro_5	2021-05-01	4 
600	9	pro_6	2021-01-19	1
700	7	pro_7	2021-08-27	2
800	8	pro_8	2021-09-15	3

Table **Client_d**:

ClientID	ClientFname	ClientLname	Age	ClientEmailID	PhoneNo	City	EmpID
1	Steve	Rogers	47	steve@avg.com	986674443	Kolkata	3
2	Dustin	Poirier	27	dustin@ufc.com	996767643	Kolkata	3
3	Avinash	Jain	24	avinash@leg.com	876588971	Delhi	1
4	Sushant	Aggarwal	23	sushant@tek.com	744355585	Hydera bad	5
5	Param	Singh	36	param@xyz.com	674445556	Mumbai	2

Output Table Structure:

EmpID	EmpFname	EmpLname	ProjectID	ProjectName
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Note-1: Write keywords of syntax in uppercase alphabets.

Note-2: Use employee ID to link the two tables.

```
SELECT e.EmpID,e.EmpFname,e.EmpLname,p.ProjectID,p.ProjectName
FROM Employee as e inner join Project as p
ON e.EmpID = p.EmpID;
```

2-Tut : SQL Query - 2

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Problem Statement:

Fetch out all the employee ID's and their contact details who have been working from Delhi with the clients name working in Kolkata.

Information about the table:

Table **Employee**:

EmpID	EmpFname	EmpLname	Age	EmailID	PhoneNo	City
1	Riya	Khanna	21	riya@abc.com	987655443	Delhi
2	Sahil	Kumar	32	sahil@abc.com	987657643	Mumbai
3	Vishwas	Aanand	24	vishwas@abc.com	987658871	Kolkata
4	Harleen	Kaur	27	harleen@abc.com	987677585	Bengaluru
5	Priyanshu	Gupta	23	priyanshu@abc.com	956758556	Hyderabad

Table **Project**:

ProjectID	EmpID	ProjectName	ProjectStartDate	ClientID
100	1	pro_1	2021-04-21	3
200	2	pro_2	2021-03-12	1
300	3	pro_3	2021-01-16	5
400	3	pro_4	2021-04-27	2
500	5	pro_5	2021-05-01	4
600	9	pro_6	2021-01-19	1
700	7	pro_7	2021-08-27	2
800	8	pro_8	2021-09-15	3

Table **Client_d**:

ClientID	ClientFname	ClientLname	Age	ClientEmailID	PhoneNo	City	EmpID
1	Steve	Rogers	47	steve@avg.com	986674443	Kolkata	3
2	Dustin	Poirier	27	dustin@ufc.com	996767643	Kolkata	3
3	Avinash	Jain	24	avinash@leg.com	876588971	Delhi	1
4	Sushant	Aggarwal	23	sushant@tek.com	744355585	Hydera bad	5
5	Param	Singh	36	param@xyz.com	674445556	Mumbai	2

Output Table Structure:

EmpID	EmailID	PhoneNo	ClientFname	ClientLname
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Note-1: Write keywords of syntax in uppercase alphabets.

Note-2: Use employee ID to link the two tables.

```
select e.EmpID,e.EmailID,e.PhoneNo,c.ClientFname,c.ClientLname
from Employee as e inner join Client_d as c on c.EmpID = e.EmpID
Where e.City in ('Delhi') OR c.City in ('Kolkata');
```

3-Tut : SQL Query - 3

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Problem Statement:

List out all the project names with corresponding client's email id, for all the projects that were allocated after April 2021 and order them in descending order of the age of clients.

Information about the table:

Table **Employee**:

EmpID	EmpFname	EmpLname	Age	EmailID	PhoneNo	City
1	Riya	Khanna	21	riya@abc.com	987655443	Delhi
2	Sahil	Kumar	32	sahil@abc.com	987657643	Mumbai
3	Vishwas	Aanand	24	vishwas@abc.com	987658871	Kolkata
4	Harleen	Kaur	27	harleen@abc.com	987677585	Bengaluru
5	Priyanshu	Gupta	23	priyanshu@abc.com	956758556	Hyderabad

Table **Project**:

ProjectID	EmpID	ProjectName	ProjectStartDate	ClientID
100	1	pro_1	2021-04-21	3
200	2	pro_2	2021-03-12	1
300	3	pro_3	2021-01-16	5
400	3	pro_4	2021-04-27	2
500	5	pro_5	2021-05-01	4
600	9	pro_6	2021-01-19	1
700	7	pro_7	2021-08-27	2
800	8	pro_8	2021-09-15	3

Table **Client_d**:

ClientID	ClientFname	ClientLname	Age	ClientEmailID	PhoneNo	City	EmpID
1	Steve	Rogers	47	steve@avg.com	986674443	Kolkata	3
2	Dustin	Poirier	27	dustin@ufc.com	996767643	Kolkata	3
3	Avinash	Jain	24	avinash@leg.com	876588971	Delhi	1
4	Sushant	Aggarwal	23	sushant@tek.com	744355585	Hydera bad	5
5	Param	Singh	36	param@xyz.com	674445556	Mumbai	2

Output Table Structure:

```
+-----+-----+
| ProjectName | ClientEmailID |
+-----+-----+
```

Note-1: Write keywords of syntax in uppercase alphabets.

Note-2: Use client ID to link the two tables.

```
SELECT p.ProjectName,c.ClientEmailID
FROM Project as p inner join client_d as c on c.clientid = p.clientid
where ProjectStartDate > '2021-04-30' order by c.Age DESC;
```

4-Tut : **SQL Query - 4**

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Problem Statement:

Fetch out each project allocated to which employee.

Information about the table:

Table **Employee**:

EmpID	EmpFname	EmpLname	Age	EmailID	PhoneNo	City
1	Riya	Khanna	21	riya@abc.com	987655443	Delhi
2	Sahil	Kumar	32	sahil@abc.com	987657643	Mumbai
3	Vishwas	Aanand	24	vishwas@abc.com	987658871	Kolkata
4	Harleen	Kaur	27	harleen@abc.com	987677585	Bengaluru
5	Priyanshu	Gupta	23	priyanshu@abc.com	956758556	Hyderabad

Table **Project**:

ProjectID	EmpID	ProjectName	ProjectStartDate	ClientID
100	1	pro_1	2021-04-21	3
200	2	pro_2	2021-03-12	1
300	3	pro_3	2021-01-16	5
400	3	pro_4	2021-04-27	2
500	5	pro_5	2021-05-01	4
600	9	pro_6	2021-01-19	1
700	7	pro_7	2021-08-27	2
800	8	pro_8	2021-09-15	3

Table **Client_d**:

ClientID	ClientFname	ClientLname	Age	ClientEmailID	PhoneNo	City	EmpID
1	Steve	Rogers	47	steve@avg.com	986674443	Kolkata	3
2	Dustin	Poirier	27	dustin@ufc.com	996767643	Kolkata	3
3	Avinash	Jain	24	avinash@leg.com	876588971	Delhi	1
4	Sushant	Aggarwal	23	sushant@tek.com	744355585	Hydera bad	5
5	Param	Singh	36	param@xyz.com	674445556	Mumbai	2

Output Table Structure:

EmpFname	EmpLname	ProjectID	ProjectName
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Note-1: Write keywords of syntax in uppercase alphabets.

Note-2: Use employee ID to link the two tables.

```
select e.EmpFname,e.EmpLname,p.ProjectID,p.ProjectName
from Employee e left join Project p on e.EmpID = p.EmpID;
```

5-Tut : SQL Query- 5

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Problem Statement:

List out all the projects along with the employee's name and their respective allocated email ID.

Information about the table:

Table Employee:

EmpID	EmpFname	EmpLname	Age	EmailID	PhoneNo	City
1	Riya	Khanna	21	riya@abc.com	987655443	Delhi
2	Sahil	Kumar	32	sahil@abc.com	987657643	Mumbai
3	Vishwas	Aanand	24	vishwas@abc.com	987658871	Kolkata
4	Harleen	Kaur	27	harleen@abc.com	987677585	Bengaluru
5	Priyanshu	Gupta	23	priyanshu@abc.com	956758556	Hyderabad

Table Project:

ProjectID	EmpID	ProjectName	ProjectStartDate	ClientID
100	1	pro_1	2021-04-21	3
200	2	pro_2	2021-03-12	1
300	3	pro_3	2021-01-16	5
400	3	pro_4	2021-04-27	2
500	5	pro_5	2021-05-01	4
600	9	pro_6	2021-01-19	1
700	7	pro_7	2021-08-27	2
800	8	pro_8	2021-09-15	3

Table **Client_d**:

ClientID	ClientFname	ClientLname	Age	ClientEmailID	PhoneNo	City	EmpID
1	Steve	Rogers	47	steve@avg.com	986674443	Kolkata	3
2	Dustin	Poirier	27	dustin@ufc.com	996767643	Kolkata	3
3	Avinash	Jain	24	avinash@leg.com	876588971	Delhi	1
4	Sushant	Aggarwal	23	sushant@tek.com	744355585	Hydera bad	5
5	Param	Singh	36	param@xyz.com	674445556	Mumbai	2

Output Table Structure:

ProjectID	ProjectName	EmpFname	EmpLname	EmailID
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Note-1: Write keywords of syntax in uppercase alphabets.

Note-2: Use employee ID to link the two tables.

```
SELECT p.ProjectID,p.ProjectName,e.EmpFname,e.EmpLname,e.EmailID
from Project as p left join Employee as e on e.EmpID = p.EmpID;
```

6-Tut : SQL Query- 6

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Problem Statement:

List out all the client details email address, whose age is between 25 to 35, along with the projects assigned to them in ascending order of their age and project ID. Also, use c for client_d and p for project, as alias name of tables.

Information about the table:

Table **Employee**:

EmpID	EmpFname	EmpLname	Age	EmailID	PhoneNo	City
1	Riya	Khanna	21	riya@abc.com	987655443	Delhi
2	Sahil	Kumar	32	sahil@abc.com	987657643	Mumbai
3	Vishwas	Aanand	24	vishwas@abc.com	987658871	Kolkata
4	Harleen	Kaur	27	harleen@abc.com	987677585	Bengaluru
5	Priyanshu	Gupta	23	priyanshu@abc.com	956758556	Hyderabad

Table **Project**:

ProjectID	EmpID	ProjectName	ProjectStartDate	ClientID
100	1	pro_1	2021-04-21	3
200	2	pro_2	2021-03-12	1
300	3	pro_3	2021-01-16	5
400	3	pro_4	2021-04-27	2
500	5	pro_5	2021-05-01	4
600	9	pro_6	2021-01-19	1
700	7	pro_7	2021-08-27	2
800	8	pro_8	2021-09-15	3

Table **Client_d**:

ClientID	ClientFname	ClientLname	Age	ClientEmailID	PhoneNo	City	EmpID
1	Steve	Rogers	47	steve@avg.com	986674443	Kolkata	3
2	Dustin	Poirier	27	dustin@ufc.com	996767643	Kolkata	3
3	Avinash	Jain	24	avinash@leg.com	876588971	Delhi	1
4	Sushant	Aggarwal	23	sushant@tek.com	744355585	Hydera bad	5
5	Param	Singh	36	param@xyz.com	674445556	Mumbai	2

Output Table Structure:

```
+-----+-----+-----+-----+-----+-----+
| ClientID | ClientFname | ClientLname | ClientEmailID | ProjectID | ProjectName |
+-----+-----+-----+-----+-----+-----+
```

Note-1: Write keywords of syntax in uppercase alphabets.

Note-2: Use client ID to link the two tables.

```
select c.ClientID,c.ClientFname,c.ClientLname,c.ClientEmailID,p.ProjectID,p.ProjectName
from Client_d as c left join project as p on c.ClientID = p.ClientID
where c.Age between 25 and 35
ORDER BY c.age,p.ProjectId;
```

Note : Can use Right Join also

7-Tut : SQL Query - 7

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Problem Statement:

List out all the combinations possible for the employee's name and projects that can exist(NULL included).

Information about the table:

Table **Employee**:

EmpID	EmpFname	EmpLname	Age	EmailID	PhoneNo	City
1	Riya	Khanna	21	riya@abc.com	987655443	Delhi
2	Sahil	Kumar	32	sahil@abc.com	987657643	Mumbai
3	Vishwas	Aanand	24	vishwas@abc.com	987658871	Kolkata
4	Harleen	Kaur	27	harleen@abc.com	987677585	Bengaluru
5	Priyanshu	Gupta	23	priyanshu@abc.com	956758556	Hyderabad

Table **Project**:

ProjectID	EmpID	ProjectName	ProjectStartDate	ClientID
100	1	pro_1	2021-04-21	3
200	2	pro_2	2021-03-12	1
300	3	pro_3	2021-01-16	5
400	3	pro_4	2021-04-27	2
500	5	pro_5	2021-05-01	4
600	9	pro_6	2021-01-19	1
700	7	pro_7	2021-08-27	2
800	8	pro_8	2021-09-15	3

Table **Client_d**:

ClientID	ClientFname	ClientLname	Age	ClientEmailID	PhoneNo	City	EmpID
1	Steve	Rogers	47	steve@avg.com	986674443	Kolkata	3
2	Dustin	Poirier	27	dustin@ufc.com	996767643	Kolkata	3
3	Avinash	Jain	24	avinash@leg.com	876588971	Delhi	1
4	Sushant	Aggarwal	23	sushant@tek.com	744355585	Hydera bad	5
5	Param	Singh	36	param@xyz.com	674445556	Mumbai	2

Output Table Structure:

EmpFname	EmpLname	ProjectID
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Note: Write keywords of syntax in uppercase alphabets.

```
select e.EmpFname,e.EmpLname,p.ProjectID
from Employee as e cross join Project as p;
```