# SQL Learning from scratch

-- set 6

-- Join
-- left join
-- right join
-- outer join
-- inner join

# Query

- -- 1. write a query to get all employee
- select * from EMP;



| | EMP_ID | FNAME | LNAME | Salary | join_Date | DEPT | Gender |
|---|---|---|---|---|---|---|---|
| 1 | 1 | Vikas | Ahlawat | 600000 | 2013-02-15 | IT | Male |
| 2 | 2 | Nikita | Jain | 530000 | 2014-01-09 | HR | Female |
| 3 | 3 | Ashish | Kumar | 10000000 | 2014-01-09 | IT | Male |
| 4 | 4 | Nikhil | Sharma | 480000 | 2014-01-09 | HR | Male |
| 5 | 5 | Anish | Kadian | 600000 | 2013-02-15 | Payroll | Male |

# Query_New_table

- CREATE table prjct_details
- (
- prjct_id int,
- emp_id int,
- prjct_name char(20)
- );

Messages
Commands completed successfully.

Completion time: 2023-06-06T15:16:42.3561295-04:00

# Query_Insert_Values

- insert into prjct_details values ( 1,1, 'Task Track' );
- insert into prjct_details values (2, 1, 'CLP');
- insert into prjct_details values (3, 1, 'Survey_mngment');
- insert into prjct_details values (4, 2, 'HR_mngment');
- insert into prjct_details values (5, 3, 'Task_track');
- insert into prjct_details values (6, 3, 'GRS');
- insert into prjct_details values (7, 3, 'DDS');
- insert into prjct_details values (8, 4, 'HR_Mngment');
- insert into prjct_details values (9, 6, 'GL_mngmt');

Messages

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

(1 row affected)

# Query_table_two

- -- 1. write a query to get all employee
- select * from Prject_details;

| | prjct_id | emp_id | prjct_name |
|---|---|---|---|
| 1 | 1 | 1 | Task Track |
| 2 | 2 | 1 | CLP |
| 3 | 3 | 1 | Survey_mngment |
| 4 | 4 | 2 | HR_mngment |
| 5 | 5 | 3 | Task_track |
| 6 | 6 | 3 | GRS |
| 7 | 7 | 3 | DDS |
| 8 | 8 | 4 | HR_Mngment |
| 9 | 9 | 6 | GL_mngmt |

# Query_1

- -- 1. print emp_name, prjct name with their assigned projct.
- select rtrim(emp.fname+emp.lname), p.prjct_name
- from emp as emp
- inner join prjct_details as p
- ON p.emp_id  = emp.emp_id

⊞ Results  ⊟ Messages

| | (No column name) | | prjct_name |
|---|---|---|---|
| 1 | Vikas | Ahlawat | Task Track |
| 2 | Vikas | Ahlawat | CLP |
| 3 | Vikas | Ahlawat | Survey_mngment |
| 4 | Nikita | Jain | HR_mngment |
| 5 | Ashish | Kumar | Task_track |
| 6 | Ashish | Kumar | GRS |
| 7 | Ashish | Kumar | DDS |
| 8 | Nikhil | Sharma | HR_Mngment |

# Query_2

- -- 1. print emp_name, prjct name with their assigned projct.
- select rtrim(emp.fname+emp.lname), p.prjct_name
- from emp as emp
- inner join prjct_details as p
- ON p.emp_id  = emp.emp_id

⊞ Results  ▤ Messages

| | fname | prjct_name |
|---|---|---|
| 1 | Anish | NULL |
| 2 | Ashish | Task_track |
| 3 | Ashish | GRS |
| 4 | Ashish | DDS |
| 5 | Nikhil | HR_Mngment |
| 6 | Nikita | HR_mngment |
| 7 | Vikas | Task Track |
| 8 | Vikas | CLP |
| 9 | Vikas | Survey_mngment |

# Query_3

- -- 3. print emp_name, prjct_name, even if not the project assignend print no project assigned.

- select e. fname, isnull(prjct_name, 'No Project assigned') as project

- from emp as e

- Left Outer Join prjct_details as p

- ON e.emp_id = p.emp_id

- order by e.fname

▦ Results  ▤ Messages

| | fname | project |
|---|---|---|
| 1 | Anish | No Project assigned |
| 2 | Ashish | Task_track |
| 3 | Ashish | GRS |
| 4 | Ashish | DDS |
| 5 | Nikhil | HR_Mngment |
| 6 | Nikita | HR_mngment |
| 7 | Vikas | Task Track |
| 8 | Vikas | CLP |
| 9 | Vikas | Survey_mngment |

# Query_4

- -- 4. print all projcts even if they has no assigned employees
- select e.fname, p.prjct_name
- from emp as e
- Right Outer Join prjct_details as p
- ON e.emp_id = p.emp_id
- order by e.fname

⊞ Results  ▣ Messages

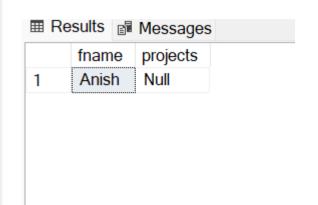| | fname | prjct_name |
|---|---|---|
| 1 | NULL | GL_mngmt |
| 2 | Ashish | Task_track |
| 3 | Ashish | GRS |
| 4 | Ashish | DDS |
| 5 | Nikhil | HR_Mngment |
| 6 | Nikita | HR_mngment |
| 7 | Vikas | Task Track |
| 8 | Vikas | CLP |
| 9 | Vikas | Survey_mngment |

# Query_5

- -- 5. print all records from both tables
- select E.emp_id, E.fname, P.prjct_name
- FROM emp as E
- FULL outer join prjct_details as P
- ON e.emp_id = p.emp_id
- order by e.fname

⊞ Results | 📄 Messages

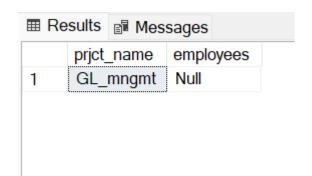|    | emp_id | fname | prjct_name |
|----|--------|-------|------------|
| 1  | NULL   | NULL  | GL_mngmt   |
| 2  | 5      | Anish | NULL       |
| 3  | 3      | Ashish | Task_track |
| 4  | 3      | Ashish | GRS        |
| 5  | 3      | Ashish | DDS        |
| 6  | 4      | Nikhil | HR_Mngment |
| 7  | 2      | Nikita | HR_mngment |
| 8  | 1      | Vikas | Task Track |
| 9  | 1      | Vikas | CLP        |
| 10 | 1      | Vikas | Survey_mngment |

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# Query_6

- -- 6. print the employee has no assigned project
- select E.fname, isnull(P.prjct_name, 'Null') as projects
- FROM emp as E
- left outer join prjct_details as P
- ON e.emp_id = P.emp_id
- WHERE P.prjct_name IS NULL
- Order by e.fname

⊞ Results  ⊡ Messages

| | fname | projects |
|---|---|---|
| 1 | Anish | Null |

# Query_7

- -- 7. print the name of projects which has no assigned employees
- select P.prjct_name, isnull(E.fname,  'Null') as employees
- FROM emp as E
- full outer join prjct_details as P
- ON e.emp_id = P.emp_id
- WHERE e.fname IS NULL

▦ Results  📄 Messages

| | prjct_name | employees |
|---|---|---|
| 1 | GL_mngmt | Null |

# Query_8

- -- 8. print the employees assigned for more than a project.
- select E.fname, P.prjct_name as projects
- FROM emp as E
- inner join prjct_details as P
- ON E.emp_id = P.emp_id
- WHERE E.emp_ID IN (
- SELECT emp_ID
- FROM prjct_details
- GROUP BY emp_ID
- HAVING count(*) >2 );

| | fname | projects |
|---|---|---|
| 1 | Vikas | Task Track |
| 2 | Vikas | CLP |
| 3 | Vikas | Survey_mngment |
| 4 | Ashish | Task_track |
| 5 | Ashish | GRS |
| 6 | Ashish | DDS |

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# Query_9

- -- 9. Print the name of projects who has more than 1 employees.
- SELECT E.fname, P.prjct_name as projects
- FROM prjct_details as P
- INNER JOIN emp as e
- ON p.emp_id = E.emp_id
- WHERE p.prjct_name IN(
- SELECT prjct_name
- from prjct_details
- group by prjct_name);

| | fname | projects |
|---|---|---|
| 1 | Vikas | Task Track |
| 2 | Vikas | CLP |
| 3 | Vikas | Survey_mngment |
| 4 | Nikita | HR_mngment |
| 5 | Ashish | Task_track |
| 6 | Ashish | GRS |
| 7 | Ashish | DDS |
| 8 | Nikhil | HR_Mngment |

⊞ Results  🗐 Messages