

INNER JOIN

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'entri_dd41' selected. The main editor window contains the following SQL query:

```
-- Inner Joins
SELECT p.Fname, p.Lname, c.Country_name FROM Persons p INNER JOIN Country c ON p.Country_Id = c.Id;
```

The 'Result Grid' shows the following data:

Fname	Lname	Country_name
John	Kurian	India
Soubhi	Borghol	Syria
Sarfaraz	Khan	Pakistan
Subhash	Raj	India
Eyad		Syria
Alice	White	Poland
Peter		England
Anna	Biji	India
Lufi	Onc	Pakistan
Maria	Ahmad	Syria
Kinia		France
Aby		Italy

The 'Output' pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	09:42:40	USE entri_dd41	0 row(s) affected	0.000 sec
2	09:42:57	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p INNER JOIN Country c ON p.Country...	12 row(s) returned	0.000 sec / 0.000 sec

LEFT JOIN

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'entri_dd41' selected. The main editor window contains the following SQL queries:

```
-- Inner Joins
SELECT p.Fname, p.Lname, c.Country_name FROM Persons p INNER JOIN Country c ON p.Country_Id = c.Id;

-- Left Joins
SELECT p.Fname, p.Lname, c.Country_name FROM Persons p
LEFT JOIN Country c ON p.Country_id = c.Id;
```

The 'Result Grid' shows the following data:

Fname	Lname	Country_name
John	Kurian	India
Soubhi	Borghol	Syria
Sarfaraz	Khan	Pakistan
Subhash	Raj	India
Eyad		Syria
Alice	White	Poland
Peter		England
Anna	Biji	India
Lufi	Onc	Pakistan
Maria	Ahmad	Syria
Kinia		France
Aby		Italy

The 'Output' pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	09:42:40	USE entri_dd41	0 row(s) affected	0.000 sec
2	09:42:57	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p INNER JOIN Country c ON p.Country...	12 row(s) returned	0.000 sec / 0.000 sec
3	09:43:46	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p LEFT JOIN Country c ON p.Country_...	12 row(s) returned	0.000 sec / 0.000 sec

RIGHT JOIN

The screenshot shows the MySQL Workbench interface with a query window containing the following SQL code:

```
1 -- Inner Joins
2 SELECT p.Fname, p.Lname, c.Country_name FROM Persons p INNER JOIN Country c ON p.Country_Id = c.Id;
3
4 -- Left Joins
5 SELECT p.Fname, p.Lname, c.Country_name FROM Persons p
6 LEFT JOIN Country c ON p.Country_Id = c.Id;
7
8 -- Right Joins
9 SELECT p.Fname, p.Lname, c.Country_name
10 FROM Persons p RIGHT JOIN Country c ON p.Country_Id = c.Id;
11
```

The results grid displays the output of the RIGHT JOIN query:

Fname	Lname	Country_name
John	Kurian	India
Subhash	Raj	India
Anna	Bij	India
Soubhi	Borghol	Syria
Eyad		Syria
Maria	Ahmad	Syria
Sarfraz	Khan	Pakistan
Lufi	One	Pakistan
Alice	White	Poland
Peter		England
Khinia		France
Abby		Italy
		Nepal

The output window shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	09:42:40	USE entri_dd41	0 row(s) affected	0.000 sec
2	09:42:57	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p INNER JOIN Country c ON p.Country...	12 row(s) returned	0.000 sec / 0.000 sec
3	09:43:46	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p LEFT JOIN Country c ON p.Country...	12 row(s) returned	0.000 sec / 0.000 sec
4	09:44:22	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p RIGHT JOIN Country c ON p.Country...	15 row(s) returned	0.016 sec / 0.000 sec

LISTED ALL DISTINCT COUNTRY NAMES FROM BOTH COUNTRY AND PERSONS TABLE

The screenshot shows the MySQL Workbench interface with a query window containing the following SQL code:

```
6 LEFT JOIN Country c ON p.Country_Id = c.Id;
7
8 -- Right Joins
9 SELECT p.Fname, p.Lname, c.Country_name
10 FROM Persons p RIGHT JOIN Country c ON p.Country_Id = c.Id;
11
12 -- Listed all distinct country names from both Country and Persons Tables
13 SELECT DISTINCT Country_name FROM Country UNION
14 SELECT DISTINCT Country_name FROM Persons;
15
16
```

The results grid displays the output of the UNION query:

Country_name
India
Syria
Pakistan
Poland
England
France
Italy
Nepal
Iran
Japan

The output window shows the execution log:

#	Time	Action	Message	Duration / Fetch
1	09:42:40	USE entri_dd41	0 row(s) affected	0.000 sec
2	09:42:57	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p INNER JOIN Country c ON p.Country...	12 row(s) returned	0.000 sec / 0.000 sec
3	09:43:46	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p LEFT JOIN Country c ON p.Country...	12 row(s) returned	0.000 sec / 0.000 sec
4	09:44:22	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p RIGHT JOIN Country c ON p.Country...	15 row(s) returned	0.016 sec / 0.000 sec
5	09:45:37	SELECT DISTINCT Country_name FROM Country UNION SELECT DISTINCT Country_name FROM ...	10 row(s) returned	0.000 sec / 0.000 sec

LISTED ALL COUNTRY NAMES FROM BOTH COUNTRY AND PERSONS TABLE INCLUDING DUPLICATES

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
-- Right Joins
SELECT p.Fname, p.Lname, c.Country_name
FROM Persons p RIGHT JOIN Country c ON p.Country_Id = c.Id;

-- Listed all distinct country names from both Country and Persons Tables
SELECT DISTINCT Country_name FROM Country UNION
SELECT DISTINCT Country_name FROM Persons;

-- Listed all country names from both the Country and Persons tables, including duplicates.
SELECT Country_name FROM Country UNION ALL SELECT Country_name FROM Persons;
```

The Result Grid shows the output of the last query, listing all country names including duplicates:

Country_name
India
Syria
Pakistan
Poland
England
France
Italy
Nepal
Iran
Japan
India
Syria
Pakistan

The Output pane shows the execution log for the queries:

#	Time	Action	Message	Duration / Fetch
1	09:42:40	USE entri_dd41	0 row(s) affected	0.000 sec
2	09:42:57	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p INNER JOIN Country c ON p.Country...	12 row(s) returned	0.000 sec / 0.000 sec
3	09:43:46	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p LEFT JOIN Country c ON p.Country...	12 row(s) returned	0.000 sec / 0.000 sec
4	09:44:22	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p RIGHT JOIN Country c ON p.Country...	15 row(s) returned	0.016 sec / 0.000 sec
5	09:45:37	SELECT DISTINCT Country_name FROM Country UNION SELECT DISTINCT Country_name FROM ...	10 row(s) returned	0.000 sec / 0.000 sec
6	09:46:43	SELECT Country_name FROM Country UNION ALL SELECT Country_name FROM Persons	22 row(s) returned	0.000 sec / 0.000 sec

ROUNDED THE RATING OF ALL PERSONS TO NEAREST INTEGER FORM THE PERSONS TABLE

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following queries:

```
-- Listed all distinct country names from both Country and Persons Tables
SELECT DISTINCT Country_name FROM Country UNION
SELECT DISTINCT Country_name FROM Persons;

-- Listed all country names from both the Country and Persons tables, including duplicates.
SELECT Country_name FROM Country UNION ALL SELECT Country_name FROM Persons;

-- Rounded the ratings of all persons to the nearest integer in the Persons table.
SELECT Id, Fname, Lname, Population, ROUND(Rating) AS
RoundedRating, Country_Id, Country_name FROM Persons;
```

The Result Grid shows the output of the last query, listing all persons with their rounded ratings:

Id	Fname	Lname	Population	RoundedRating	Country_Id	Country_name
1	John	Kurian	250000	5	1	India
2	Soubhi	Borghol	300000	4	2	Syria
3	Sarfaraz	Khan	150000	4	3	Pakistan
4	Subhash	Raj	200000	5	1	India
5	Eyad		180000	4	2	Syria
6	Alice	White	120000	4	4	Poland
7	Peter		50000	2	5	England
8	Anna	Blj	70000	5	1	India
9	Lufi	Ornc	90000	4	3	Japan
10	Maria	Ahmad	220000	5	2	Syria
11	Kina		60000	3	6	Poland
12	Aby		85000	4	7	Japan

The Output pane shows the execution log for the queries:

#	Time	Action	Message	Duration / Fetch
1	09:42:57	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p INNER JOIN Country c ON p.Countr...	12 row(s) returned	0.000 sec / 0.000 sec
3	09:43:46	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p LEFT JOIN Country c ON p.Countr...	12 row(s) returned	0.000 sec / 0.000 sec
4	09:44:22	SELECT p.Fname, p.Lname, c.Country_name FROM Persons p RIGHT JOIN Country c ON p.Countr...	15 row(s) returned	0.016 sec / 0.000 sec
5	09:45:37	SELECT DISTINCT Country_name FROM Country UNION SELECT DISTINCT Country_name FRO...	10 row(s) returned	0.000 sec / 0.000 sec
6	09:46:43	SELECT Country_name FROM Country UNION ALL SELECT Country_name FROM Persons	22 row(s) returned	0.000 sec / 0.000 sec
7	09:47:40	SELECT Id, Fname, Lname, Population, ROUND(Rating) AS RoundedRating, Country_Id, Country_n...	12 row(s) returned	0.000 sec / 0.000 sec