

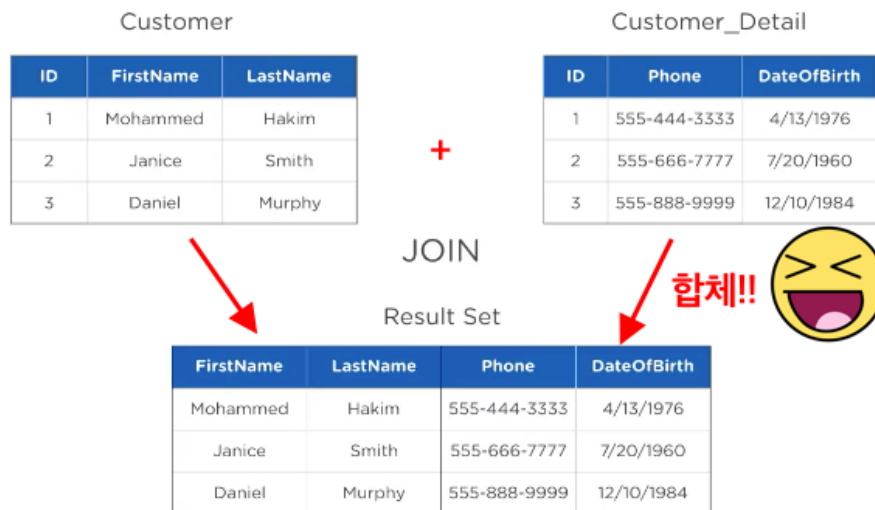
Querying Relational Databases Part 4 Notes

Team Treehouse

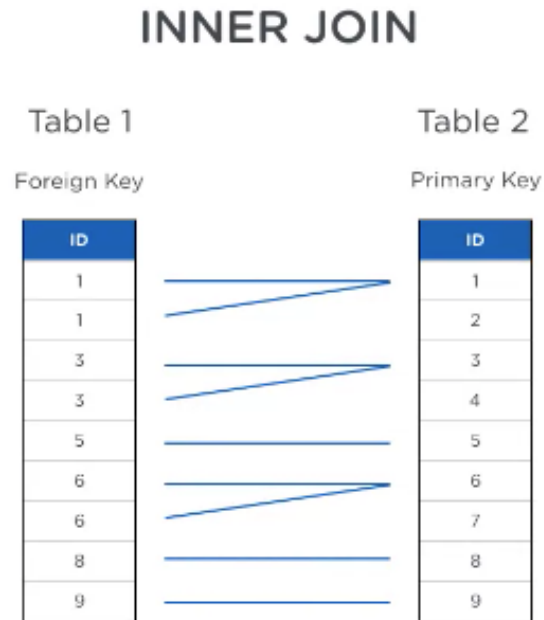
June 7, 2020

1 Join Queries

- Joins two tables into one
- Is used in tables with one to one relationship



2 Inner Joins



- Is most common type of JOIN
- Is used for joining one to many relationships
- **Syntax:** `SELECT columns name FROM table 1 (many) name INNER JOIN table 2 (one) name ON table 1 name.column name = table 2 name.column name;`
 - Can join more than 2 tables

Example:

```
1 SELECT mk.MakeName = md.ModelName FROM make AS mk
2 INNER JOIN model AS md ON mk.MakeId = md.MakeId;
3
```

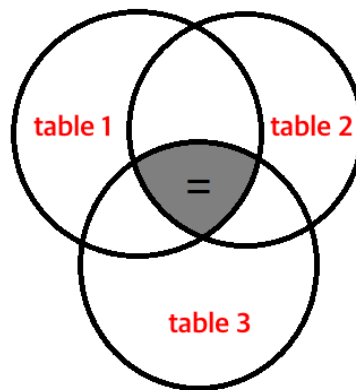
```
1 -- SELECT <columns> FROM <table1> INNER JOIN <table2> ON <equality criteria>
2 -- WHERE <search criteria> ...
3
4 -- What are all Chevy models?
5
6 SELECT mk.MakeName, md.ModelName FROM make AS mk
7 INNER JOIN model AS md ON mk.MakeID = md.MakeID
8 WHERE MakeName = "Chevy";
```

Reset

Run

MakeName	ModelName
Chevy	Impala
Chevy	Cruze
Chevy	Colorado

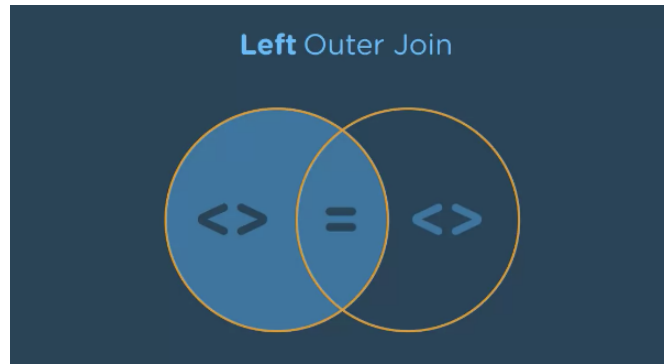
- In venn diagram, looks something like this



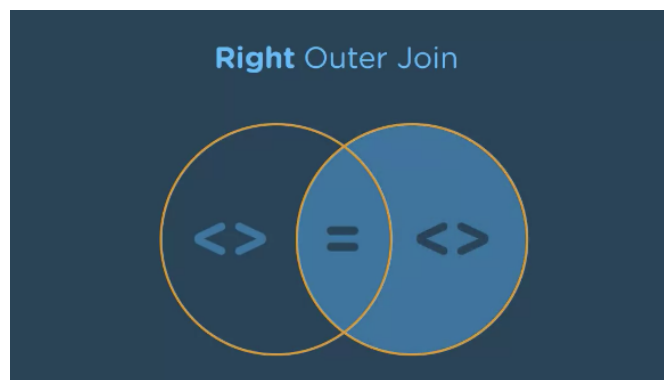
3 Outer Join

- Is less common than inner join, but highly useful
- There are three types
 - Left Outer Join

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– Right Outer Join



– Full Outer Join

