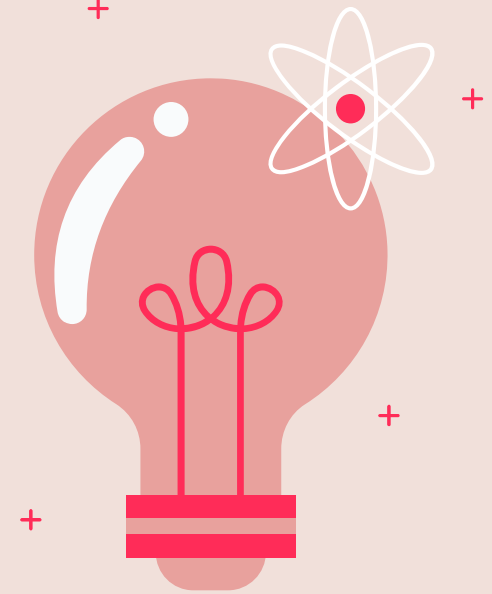


Intro to SQL



+ Basic Table Structure +

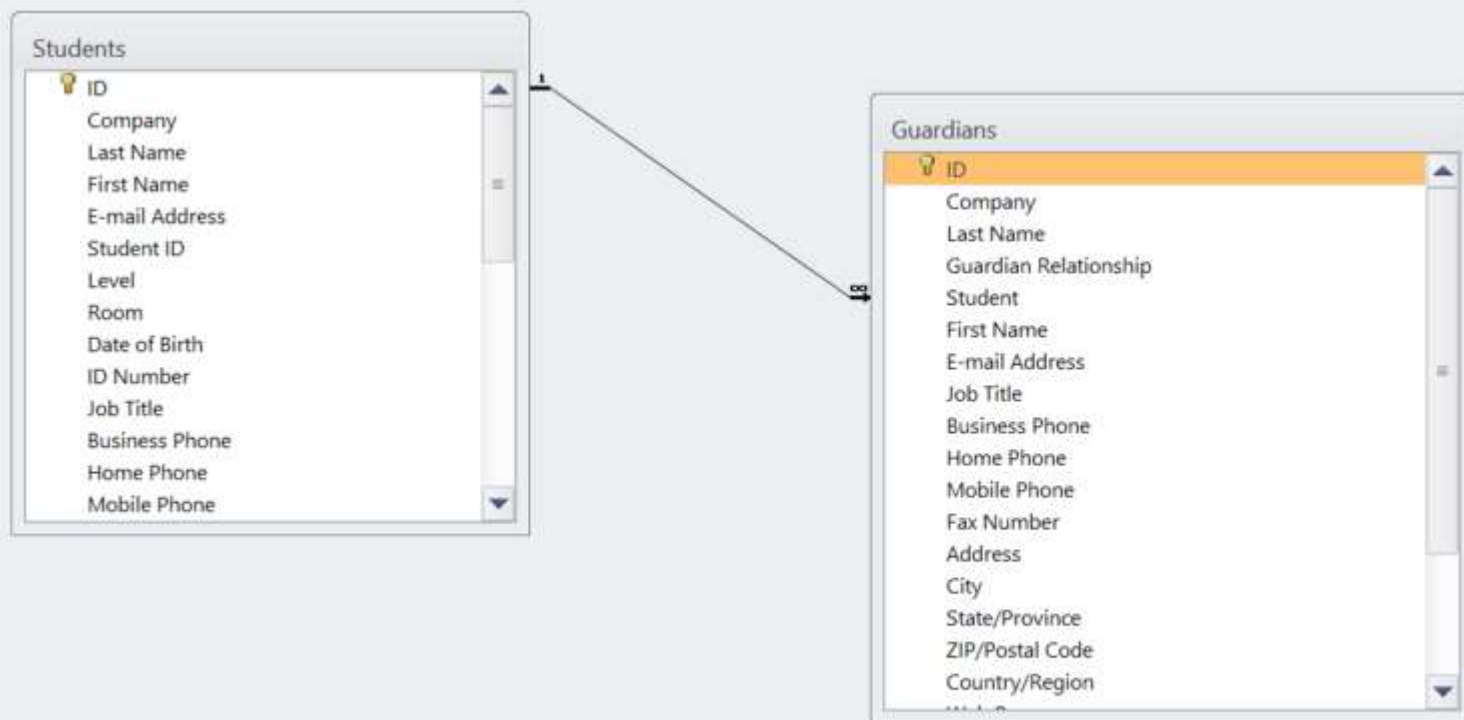
Each table should have

- Name
- Columns
- Information related to its category

DOG TABLE

dog_id (ID, INT)	breed (VARCHAR)	age (INT)
1	Chinese Shar-Pei	12
2	Italian Greyhound	15
3	Irish Water Spaniel	12

Sample Relational DB



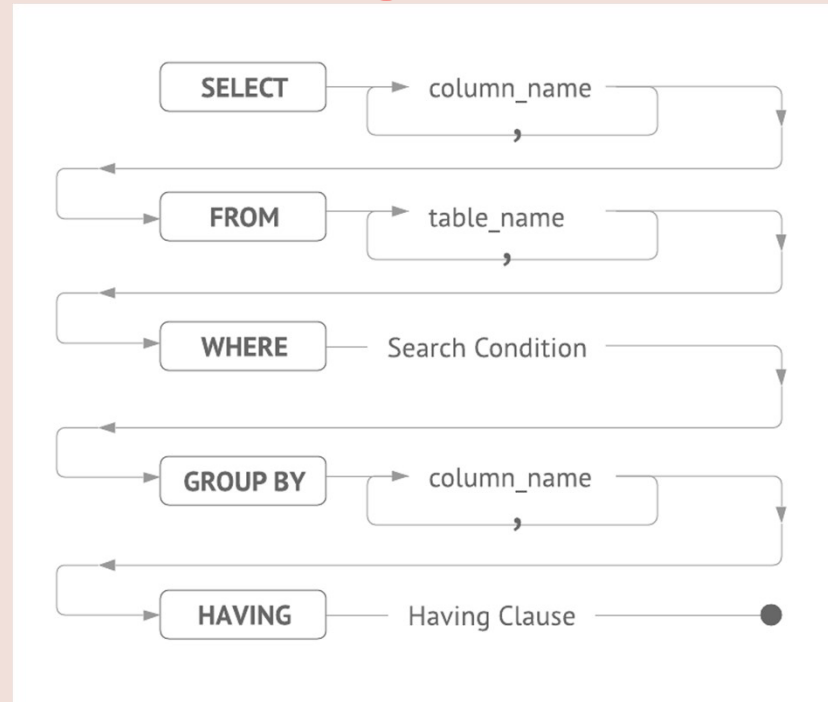
How do we get data out?

SQL is a Data Manipulation Language to retrieve and store information

Main Types Of SQL Statements:

- **Select** - gets info from table
- **Insert** - adds info in table
- **Delete** - removes info from table
- **Update** - updates data

Selecting Statement



The simplest form of the SELECT statement contains the SELECT clause and the FROM clause.

Selecting Data

```
SELECT * FROM table_name;
```

```
SELECT column1, column2, column3  
FROM table_name;
```

```
SELECT column1, column2, column3  
FROM table_name  
WHERE conditional_selection;
```

Creating a Sample Database

- Go to <http://sqlfiddle.com/>
- Type the Below into the left window

```
CREATE TABLE dogs (dog_id integer PRIMARY KEY, breed varchar(50));  
INSERT INTO dogs (dog_id, breed) VALUES (16, 'Dalmatian');
```
- Click Blue **Build Schema Button**
- Click in the right window.
- Type the below
Select * from dog;
- Click **run sql button**
- If any issues, try it with
https://www.tutorialspoint.com/execute_sql_online.php