Lecture 3

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List all cities of people who were born in Ireland

1. Which table will have our data?

```
People
```

2. Which attributes do we want?

```
birthCity
```

3. What is our filter?

```
birthCountry = 'Ireland'
```

```
select birthCity where birthCountry = 'Irealnd';
```

To remove duplicates

```
select distinct ...
```

This will treat null as all the same value, even though null != null

List all playerId's and the total bases for each batter with at least 600 at bats in 2018

- 1. Which table will have our data? Batting
- 2. Which attributes do we want?

```
playerId, yearId, H + 2b + 2 * 3b + 3 * hr
```

3. What is our filter?

```
Ab >= 600
```

```
select playerId, H + 2b + 2 * 3b + 3 * hr,
from batting
where abs >= 600
and yearId = 2018;
```

String operations

Find first and last names of people ...

```
select concat(nameFirst,' ',nameLast) as fullName
```

Wildcards

```
select nameFirst from People where nameLast like "%son";
```

Date Operations

Find the number of days a person played

```
select datediff(finalGame, debut) ...
```

or

```
select ... where datediff(finalGame, debut) > 100;
```

It can be used in either instance.

If statements

Find batting averages of all players on 2018 Tigers

- 1. Batting
- 2. h/ab
- 3. yearid = 2018 and teamId = 'DET'

```
select case when h/ab is null then 0.000 else h/ab end ...
```

or

```
select coalesce(h/ab, 0) ...
```