

# The Sequel to SQL: Level 4 – Section 2

## Aliases

# Giving Our Results More Meaningful Names

Can we give our columns a name that has a more accurate meaning?

The Current Query

```
SELECT Movies.title , Reviews.review
FROM Movies
INNER JOIN Reviews
ON Movies.id=Reviews.movie_id;
```



title	review
Don Juan	Loved it!
Don Juan	A must-see!
Don Juan	Hated it
Robin Hood	It was okay
The Lost World	Do not see!

(5 rows)

# Using Column Aliases

Give the columns new temporary names.

```
SELECT Movies.title AS films, Reviews.review AS reviews
FROM Movies
INNER JOIN Reviews
ON Movies.id=Reviews.movie_id;
```

*These are temporary table names  
that will only affect this query.*

films	reviews
Don Juan	Loved it!
Don Juan	A must-see!
Don Juan	Hated it
Robin Hood	It was okay
The Lost World	Do not see!
(5 rows)	

# Using Column Aliases

The AS can be dropped from the query.

```
SELECT Movies.title films, Reviews.review reviews
FROM Movies
INNER JOIN Reviews
ON Movies.id=Reviews.movie_id;
```

<b>films</b>	<b>reviews</b>
Don Juan	Loved it!
Don Juan	A must-see!
Don Juan	Hated it
Robin Hood	It was okay
The Lost World	Do not see!
(5 rows)	

# Using More Than 1 Word for a Column Alias

```
SELECT Movies.title "Weekly Movies" ,
Reviews.review "Weekly Reviews"
FROM Movies
INNER JOIN Reviews
ON Movies.id=Reviews.movie_id;
```

*When using aliases with more than 2 words, you must use quotation marks.*

*Quotes are also needed if you want capitalization.*

Weekly Films	Weekly Reviews
Don Juan	Loved it!
Don Juan	A must-see!
Don Juan	Hated it
Robin Hood	It was okay
The Lost World	Do not see!
(5 rows)	



# Our Queries Can Get Verbose

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Every time we need to reference the Movies or Promotions table, we have to type the whole word.

Our Original Query

```
SELECT Movies.title, Reviews.review
FROM Movies
INNER JOIN Reviews
ON Movies.id=Reviews.movie_id
ORDER BY Movies.title;
```

*By using **Table Aliases**, we can shorten this query by substituting the Table Name.*

# Using Table Aliases

By shortening our queries, we can save time when producing longer queries.

```
SELECT m.title, Reviews.review  
FROM Movies m ←  
INNER JOIN Reviews  
ON m.id=Reviews.movie_id  
ORDER BY m.title;
```

*Allows us to refer to the **Movies** table as **m***

# Using Table Aliases

Table aliases can also be created on any or all tables both within and outside the FROM clause.

```
SELECT m.title, r.review
FROM Movies m
INNER JOIN Reviews r
ON m.id=r.movie_id
ORDER BY m.title;
```

*We can create table aliases within JOIN statements.*

title	review
Don Juan	Loved it!
Don Juan	A must-see!
Don Juan	Hated it
Robin Hood	It was okay
The Lost World	Do not see!

(5 rows)

*Same result!*



# Remember This INNER JOIN?

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How do we find the genres of *Peter Pan*?

*First join* →

```
SELECT Movies.title, Genres.name  
FROM Movies  
INNER JOIN Movies_Genres  
ON Movies.id = Movies_Genres.movie_id
```

*Second join* →

```
INNER JOIN Genres  
ON Movies_Genres.genre_id = Genres.id  
WHERE Movies.title = "Peter Pan";
```

# INNER JOIN on Multiple Tables With Aliases

How do we find the genres of *Peter Pan*?

First join →

```
SELECT m.title, g.name
FROM Movies m
INNER JOIN Movies_Genres mg
ON m.id = mg.movie_id
```

Second join →

```
INNER JOIN Genres g
ON mg.genre_id = g.id
WHERE m.title = "Peter Pan";
```



title	name
Peter Pan	Adventure
Peter Pan	Fantasy

(2 rows)