

The following shows a sample of how I used intermediate SQL coding to filter and analyze data from a data set within Data camp to demonstrate my understanding of SQL.

Selecting how many records are in the table.

```
1 SELECT COUNT (*) AS count_records
2 FROM people;
```

query result	people	films
count_records		
8397		

Using the DISTINCT code to select unique fields.

```
1 SELECT DISTINCT country
2 FROM films;
3
```

query result	films
country	
null	
Soviet Union	
Indonesia	
Italy	
Cameroon	
Showing 65 out of 65 rows	

Using the WHERE to filter and analyze the data.

query.sql	
1	SELECT film_id, imdb_score
2	FROM reviews
3	WHERE imdb_score > 7.0

query result	reviews
film_id	imdb_score
3934	7.1
74	7.6
1254	8
4841	8.1
3252	7.2
1181	7.3
3929	7.1
3298	7.4
2744	7.4
4707	7.4
3879	7.3
3854	7.6
1526	7.6
Showing 100 out of 1536 rows	

Using the AND code to return stronger queries of the data.

```
1 SELECT title, release_year
2 FROM films
3 WHERE (language = 'German' and release_year < 2000)
4
5
6
```

query result	films
title	release_year
Metropolis	1927
Pandora's Box	1929
The Torture Chamber of Dr. Sadism	1967
Das Boot	1981
Run Lola Run	1998
Aimee & Jaguar	1999

Using the OR code to drill down data.

1	SELECT title, release_year
2	FROM films
3	WHERE release_year = 1990 OR release_year = 1999;
query result	films
title	release_year
Arachnophobia	1990
Back to the Future Part III	1990
Child's Play 2	1990
Dances with Wolves	1990
Days of Thunder	1990
Dick Tracy	1990
Die Hard 2	1990
Edward Scissorhands	1990
Flatliners	1990
Ghost	1990
Goodfellas	1990
Showing 100 out of 198 rows	

Using the BETWEEN code to drill down certain amount of time.

query.sql	
<pre>1 SELECT title, release_year 2 FROM films 3 Where release_year BETWEEN 1990 AND 2000;</pre>	
query result	films
title	release_year
Arachnophobia	1990
Back to the Future Part III	1990
Child's Play 2	1990
Dances with Wolves	1990
Days of Thunder	1990
Showing 100 out of 957 rows	

Using Aliases to keep code clean and readable.

```
1 SELECT title, duration / 60.0 AS duration_hours
2 FROM films;
```

query result	people	films	
title		duration_hours	
Intolerance: Love's Struggle Throughout the Ages		2.0500000000000000	
Over the Hill to the Poorhouse		1.8333333333333333	
The Big Parade		2.5166666666666667	
Metropolis		2.4166666666666667	
Pandora's Box		1.8333333333333333	
Showing 100 out of 4968 rows			

Sorting multiple fields

1 SELECT release\_year, duration, title

2 FROM films

3 ORDER BY release\_year DESC, duration DESC

query result	people	films	
release_year		duration	title
null		null	Wolf Creek
null		334	Carlos
null		286	The Company
null		240	Emma
null		197	Deadline Gallipoli
Showing 100 out of 4968 rows			



Data Grouping by multiple fields.

query.sql

```
1 SELECT release_year, country, MAX(budget) AS max_budget
2 FROM films
3 GROUP BY release_year, country
4 ORDER BY release_year, country
```

query result	films	
release_year	country	max_budget
1916	USA	385907
1920	USA	100000
1925	USA	245000
1927	Germany	6000000
1929	Germany	null
Showing 100 out of 505 rows		