

Lesson 13- (Relationship) many to many

- 1- Many to many basics
- 2- Crating our tables
- 3- TV joins challenges 1
- 4- Tv joins challenges 1 solution
- 5- Tv join challenges 2
- 6- Tv join challenges 2 solution
- 7- Tv joins challenges 3
- 8- Tv join challenges 3 solution
- 9- Tv joins challenges 4
- 10- Tv join challenges 4 solution
- 11- Tv joins challenges 5
- 12- Tv join challenges 5 solution
- 13- Tv joins challenges 6
- 14- Tv join challenges 6 solution
- 15- Tv joins challenges 7
- 16- Tv join challenges 7 solution

Many to many relationship

MANY:MANY

The Tiny Bit Trickier Relationship

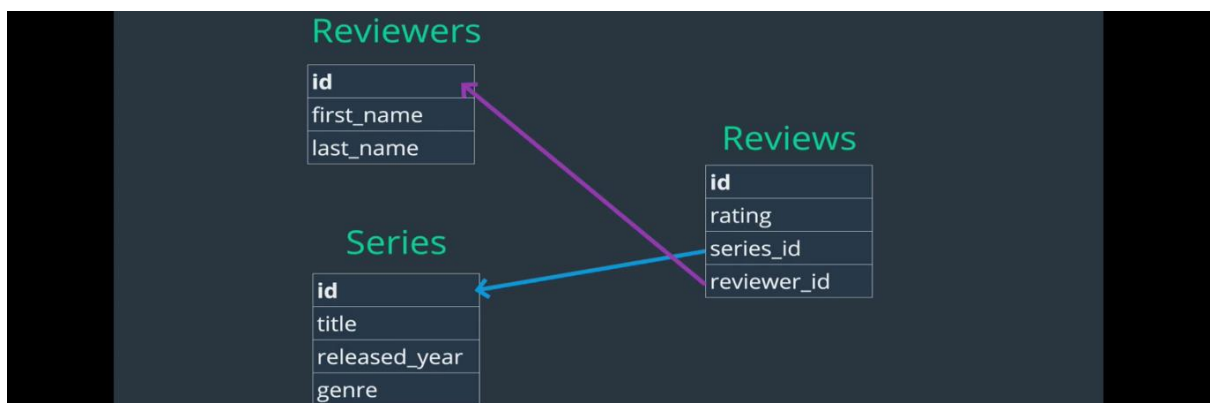
Some Examples

Books <-> Authors

Blog Post <-> Tags

Students <-> Classes

Imagine we're building
a tv show reviewing
application



Reviewers		
id	first_name	last_name
1	Blue	Steele
2	Wyatt	Earp

Series			
id	title	released_year	genre
1	Archer	2009	Animation
2	Fargo	2014	Drama

Reviews			
id	rating	reviewer_id	series_id
1	8.9	1	2
2	9.5	2	2

Create and insert and read table

```

1 CREATE TABLE reviewers (
2   id INT AUTO_INCREMENT PRIMARY KEY,
3   first_name VARCHAR(100),
4   last_name VARCHAR(100)
5 );
6
7 CREATE TABLE series(
8   id INT AUTO_INCREMENT PRIMARY KEY,
9   title VARCHAR(100),
10  released_year YEAR(4),
11  genre VARCHAR(100)
12 );
13

```

```

14 CREATE TABLE reviews (
15   id INT AUTO_INCREMENT PRIMARY KEY,
16   rating DECIMAL(2,1),
17   series_id INT,
18   reviewer_id INT,
19   FOREIGN KEY(series_id) REFERENCES series(id),
20   FOREIGN KEY(reviewer_id) REFERENCES reviewers(id)
21 );

```

NOW LET'S DO STUFF

title	rating
Archer	8.0
Archer	7.5
Archer	8.5
Archer	7.7
Archer	8.9
Arrested Development	8.1
Arrested Development	6.0
Arrested Development	8.0
Arrested Development	8.4
Arrested Development	9.9
Bob's Burgers	7.0
Bob's Burgers	7.5
Bob's Burgers	8.0
Bob's Burgers	7.1
Bob's Burgers	8.0


```

67
68 SELECT * FROM series;
69

```

Commands

CustomersOrders.sql

ReviewersMovies.sql

Schema

Schema2.sql

StudentsPapers.sql

Relationships.1

67

68

69

70

```

SELECT * FROM series
JOIN reviews
ON series.id = reviews.series_id;

```

Debugger

problems.sql

1		Archer		2009		Animation		1		8.0		1	
1		Archer		2009		Animation		2		7.5		1	
2		Archer		2009		Animation		3		8.5		1	
3		Archer		2009		Animation		4		7.7		1	
4		Archer		2009		Animation		5		8.9		1	
5		Archer		2009		Animation		6		8.1		2	
2		Arrested Development		2003		Comedy		6		8.1		2	

Work

Logical Operators

refining_selections

Relationships

CustomersOrders.sql

ReviewersMovies.sql

Schema

Schema2.sql

StudentsPapers.sql

68

69

70

71

72

73

```

SELECT
title,
rating
FROM series
JOIN reviews
ON series.id = reviews.series_id;

```

Debugger

problems.sql

title	rating
Archer	8.0
Archer	7.5
Archer	8.5
Archer	7.7
Archer	8.9
Arrested Development	8.1
Arrested Development	6.0
Arrested Development	8.0
Arrested Development	8.4
Arrested Development	9.9

title	avg_rating
General Hospital	5.38000
Bob's Burgers	7.52000
Seinfeld	7.60000
Bojack Horseman	7.94000
Arrested Development	8.08000
Curb Your Enthusiasm	8.12000
Archer	8.12000
Freaks and Geeks	8.60000
Stranger Things	8.76667
Breaking Bad	9.36000
Fargo	9.40000
Halt and Catch Fire	9.90000

Commands

CustomersOrders.sql

ReviewersMovies.sql

Schema

Schema2.sql

StudentsPapers.sql

Relationships.1

Relationships.2

76

77

78

79

80

81

82

```

SELECT
title,
rating
FROM series
JOIN reviews
ON series.id = reviews.series_id;

```

Debugger

78:11

SQL

Spaces: 4

book_data.sql

exercises.sql

first_file.sql

like.sql

problems.sql

title	rating
Archer	8.0
Archer	7.5
Archer	8.5
Archer	7.7
Archer	8.9
Arrested Development	8.1
Arrested Development	6.0
Arrested Development	8.0
Arrested Development	8.4
Arrested Development	9.9
Bob's Burgers	7.0
Bob's Burgers	7.5
Bob's Burgers	8.0

refining_selections

Relationships

CustomersOrders.sql

ReviewersMovies.sql

Schema

Schema2.sql

StudentsPapers.sql

Relationships.1

Relationships.2

77

78

79

80

81

82

83

```

SELECT
series.id,
title,
rating
FROM series
JOIN reviews
ON series.id = reviews.series_id;

```

Debugger

like.sql

problems.sql

id	title	rating
1	Archer	8.0
1	Archer	7.5
1	Archer	8.5
1	Archer	7.7
1	Archer	8.9
2	Arrested Development	8.1
2	Arrested Development	6.0
2	Arrested Development	8.0
2	Arrested Development	8.4
2	Arrested Development	9.9

Commands

Navigation

- Dates and Times
- Logical Operators
- refining_selections
- Relationships
- CustomersOrders.sql
- ReviewersMovies.sql
- Schema
- Schema2.sql
- StudentsPapers.sql
- Relationships.1
- Relationships.2
- first_file.sql
- like.sql
- problems.sql

```

77 SELECT
78     series.id,
79     title,
80     rating
81 FROM series
82 JOIN reviews
83     ON series.id = reviews.series_id
84 GROUP BY series.id;

```

id

title

rating

1	Archer	8.0
2	Arrested Development	8.1
3	Bob's Burgers	7.0
4	Bojack Horseman	7.5
5	Breaking Bad	9.5
6	Curb Your Enthusiasm	6.5
7	Fargo	9.1
8	Freaks and Geeks	8.5
9	General Hospital	5.5
10	Halt and Catch Fire	9.9

Commands

Navigation

- Dates and Times
- Logical Operators
- refining_selections
- Relationships
- CustomersOrders.sql
- ReviewersMovies.sql
- Schema
- Schema2.sql
- StudentsPapers.sql
- Relationships.1
- Relationships.2
- first_file.sql
- like.sql
- problems.sql

```

77 SELECT
78     series.id,
79     title,
80     AVG(rating) as avg_rating
81 FROM series
82 JOIN reviews
83     ON series.id = reviews.series_id
84 GROUP BY series.id;

```

id

title

avg_rating

1	Archer	8.12000
2	Arrested Development	8.08000
3	Bob's Burgers	7.52000
4	Bojack Horseman	7.94000
5	Breaking Bad	9.36000
6	Curb Your Enthusiasm	8.12000
7	Fargo	9.40000
8	Freaks and Geeks	8.60000
9	General Hospital	5.38000
10	Halt and Catch Fire	9.90000
13	Seinfeld	7.60000

Commands

Navigation

- Dates and Times
- Logical Operators
- refining_selections
- Relationships
- CustomersOrders.sql
- ReviewersMovies.sql
- Schema
- Schema2.sql
- StudentsPapers.sql
- Relationships.1
- Relationships.2
- first_file.sql
- like.sql
- problems.sql

```

77 SELECT
78     title,
79     AVG(rating) as avg_rating
80 FROM series
81 JOIN reviews
82     ON series.id = reviews.series_id
83 GROUP BY series.id
84 ORDER BY avg_rating;

```

title

avg_rating

General Hospital	5.38000
Bob's Burgers	7.52000
Seinfeld	7.60000
Bojack Horseman	7.94000
Arrested Development	8.08000
Archer	8.12000
Curb Your Enthusiasm	8.12000
Freaks and Geeks	8.60000
Stranger Things	8.76667
Breaking Bad	9.36000

first_name	last_name	rating
Thomas	Stoneman	8.0
Thomas	Stoneman	8.1
Thomas	Stoneman	7.0
Thomas	Stoneman	7.5
Thomas	Stoneman	9.5
Wyatt	Skaggs	7.5
Wyatt	Skaggs	7.6
Wyatt	Skaggs	9.3
Wyatt	Skaggs	6.5
Wyatt	Skaggs	8.4
Wyatt	Skaggs	9.1
Wyatt	Skaggs	7.8
Wyatt	Skaggs	5.5
Wyatt	Skaggs	8.5
Kimbra	Masters	8.5
Kimbra	Masters	8.0
Kimbra	Masters	7.1
Kimbra	Masters	7.8

```

86 -- CHALLENGE 3
87 SELECT * FROM reviewers;
88

```

id	first_name	last_name
1	Thomas	Stoneman
2	Wyatt	Skaggs
3	Kimbra	Masters
4	Domingo	Cortes
5	Colt	Steele
6	Pinkie	Petit
7	Marlon	Crafford

7 rows in set (0.00 sec)

```

87 SELECT * FROM reviewers;
88 SELECT * FROM reviews;

```

```

87 SELECT * FROM reviewers
88 JOIN reviews
89 ON reviewers.id = reviews.reviewer_id;

```

id	first_name	last_name	id	rating	series_id	reviewer_id
1	Thomas	Stoneman	1	8.0	1	1
1	Thomas	Stoneman	6	8.1	2	1
1	Thomas	Stoneman	11	7.0	3	1
1	Thomas	Stoneman	16	7.5	4	1
1	Thomas	Stoneman	21	9.5	5	1
2	Wyatt	Skaggs	2	7.5	1	2
2	Wyatt	Skaggs	19	7.6	4	2
2	Wyatt	Skaggs	24	9.3	5	2
2	Wyatt	Skaggs	26	6.5	6	2

```

87 SELECT
88     first_name,
89     last_name,
90     rating
91 FROM reviewers
92 JOIN reviews
93     ON reviewers.id = reviews.reviewer_id;

```

first_name	last_name	rating
Thomas	Stoneman	8.0
Thomas	Stoneman	8.1
Thomas	Stoneman	7.0
Thomas	Stoneman	7.5
Thomas	Stoneman	9.5
Wyatt	Skaggs	7.5
Wyatt	Skaggs	7.6

```

87 SELECT
88     first_name,
89     last_name,
90     rating
91 FROM reviewers
92 INNER JOIN reviews
93     ON reviewers.id = reviews.reviewer_id;

```

first_name	last_name	rating
Thomas	Stoneman	8.0
Thomas	Stoneman	8.1
Thomas	Stoneman	7.0
Thomas	Stoneman	7.5
Thomas	Stoneman	9.5
Wyatt	Skaggs	7.5
Wyatt	Skaggs	7.6



Navigation: Relationships, CustomersOrders.sql, ReviewersMovies.sql, Schema, Schema2.sql

```
104
105 SELECT *
106 FROM series;
107
108
```

	id	title	released_year	genre
1	1	Archer	2009	Animation
2	2	Arrested Development	2003	Comedy
3	3	Bob's Burgers	2011	Animation
4	4	Bojack Horseman	2014	Animation
5	5	Breaking Bad	2008	Drama
6	6	Curb Your Enthusiasm	2000	Comedy
7	7	Fargo	2014	Drama
8	8	Freaks and Geeks	1999	Comedy
9	9	General Hospital	1963	Drama
10	10	Halt and Catch Fire	2014	Drama
11	11	Malcolm In The Middle	2000	Comedy
12	12	Pushing Daisies	2007	Comedy
13	13	Seinfeld	1989	Comedy
14	14	Stranger Things	2016	Drama

Navigation: Relationships, CustomersOrders.sql, ReviewersMovies.sql, Schema, Schema2.sql, StudentsPapers.sql

```
104
105 SELECT *
106 FROM series
107 INNER JOIN reviews
108 ON series.id = reviews.series_id;
109
```

	id	title	released_year	genre	id	rating	series_id	reviewer_id
1	1	Archer	2009	Animation	1	8.0	1	1
2	1	Archer	2009	Animation	2	7.5	1	2
3	1	Archer	2009	Animation	3	8.5	1	3
4	1	Archer	2009	Animation	4	7.7	1	4
5	1	Archer	2009	Animation	5	8.9	1	5

Navigation: Relationships, CustomersOrders.sql, ReviewersMovies.sql, Schema, Schema2.sql, StudentsPapers.sql

```
104
105 SELECT *
106 FROM series
107 LEFT JOIN reviews
108 ON series.id = reviews.series_id;
109
```

	id	title	released_year	genre	id	rating	series_id	reviewer_id
1	1	Archer	2009	Animation	1	8.0	1	1
2	1	Archer	2009	Animation	2	7.5	1	2
3	1	Archer	2009	Animation	3	8.5	1	3
4	1	Archer	2009	Animation	4	7.7	1	4
5	1	Archer	2009	Animation	5	8.9	1	5

Navigation: Logical Operators, refining_selections, Relationships, CustomersOrders.sql, ReviewersMovies.sql, Schema, Schema2.sql, StudentsPapers.sql, Relationships.1, like.sql, problems.sql

```
104
105 SELECT
106 title,
107 rating
108 FROM series
109 LEFT JOIN reviews
110 ON series.id = reviews.series_id;
111
```

title	rating
Archer	8.0
Archer	7.5
Archer	8.5
Archer	7.7
Archer	8.9
Arrested Development	8.1
Arrested Development	6.0
Arrested Development	8.0
Arrested Development	8.4

Navigation: Logical Operators, refining_selections, Relationships, CustomersOrders.sql, ReviewersMovies.sql, Schema, Schema2.sql, StudentsPapers.sql, Relationships.1

```
104
105 SELECT
106 title,
107 rating
108 FROM series
109 LEFT JOIN reviews
110 ON series.id = reviews.series_id
111 WHERE rating IS NULL;
```


5	Breaking Bad	2008	Drama	22	9.0	5
3	Breaking Bad	2008	Drama	23	9.1	5
4	Breaking Bad	2008	Drama	24	9.3	5
2	Breaking Bad	2008	Drama	25	9.9	5
5	Curb Your Enthusiasm	2000	Comedy	26	6.5	6
2	Curb Your Enthusiasm	2000	Comedy	27	7.8	6
3	Curb Your Enthusiasm	2000	Comedy	28	8.8	6

112	SELECT
113	title,
114	genre,
115	rating
116	FROM series
117	JOIN reviews
118	ON series.id = reviews.series_id;

title	genre	rating
Archer	Animation	8.0
Archer	Animation	7.5
Archer	Animation	8.5
Archer	Animation	7.7
Archer	Animation	8.9
Arrested Development	Comedy	8.1
Arrested Development	Comedy	6.0
Arrested Development	Comedy	8.0
Arrested Development	Comedy	8.4
Arrested Development	Comedy	9.9
Bob's Burgers	Animation	7.0

112	SELECT
113	title,
114	genre,
115	rating
116	FROM series
117	INNER JOIN reviews
118	ON series.id = reviews.series_id
119	GROUP BY genre;

title	genre	rating
Archer	Animation	8.0
Arrested Development	Comedy	8.1
Breaking Bad	Drama	9.5

3 rows in set (0.00 sec)

112	SELECT
113	genre,
114	AVG(rating)
115	FROM series
116	INNER JOIN reviews
117	ON series.id = reviews.series_id
118	GROUP BY genre;

genre	AVG(rating)
Animation	7.86000
Comedy	8.16250
Drama	8.04375

3 rows in set (0.00 sec)

112	SELECT
113	genre,
114	AVG(rating) AS avg_rating
115	FROM series
116	INNER JOIN reviews
117	ON series.id = reviews.series_id
118	GROUP BY genre;

genre	avg_rating
Animation	7.86000
Comedy	8.16250
Drama	8.04375

3 rows in set (0.00 sec)

112	SELECT
113	genre,
114	ROUND(AVG(rating),2) AS avg_rating
115	FROM series
116	INNER JOIN reviews
117	ON series.id = reviews.series_id
118	GROUP BY genre;

genre	avg_rating
Animation	7.86
Comedy	8.16
Drama	8.04

3 rows in set (0.01 sec)

first_name	last_name	COUNT	MIN	MAX	AVG	STATUS
Thomas	Stoneman	5	7.0	9.5	8.02000	ACTIVE
Wyatt	Skaggs	9	5.5	9.3	7.80000	ACTIVE
Kimbra	Masters	9	6.8	9.0	7.98889	ACTIVE
Domingo	Cortes	10	5.8	9.1	7.83000	ACTIVE
Colt	Steele	10	4.5	9.9	8.77000	ACTIVE
Pinkie	Petit	4	4.3	8.8	7.25000	ACTIVE
Marlon	Crafford	0	0.0	0.0	0.00000	INACTIVE

```

124
125 SELECT *
126 FROM reviewers;

```

id	first_name	last_name
1	Thomas	Stoneman
2	Wyatt	Skaggs
3	Kimbra	Masters
4	Domingo	Cortes
5	Colt	Steele
6	Pinkie	Petit
7	Marlon	Crafford

```

124
125 SELECT *
126 FROM reviewers
127 JOIN reviews
128 ON reviewers.id = reviews.reviewer_id;

```

id	first_name	last_name	id	rating	series_id	reviewer_id
1	Thomas	Stoneman	1	8.0	1	1
1	Thomas	Stoneman	6	8.1	2	1
1	Thomas	Stoneman	11	7.0	3	1
1	Thomas	Stoneman	16	7.5	4	1
1	Thomas	Stoneman	21	9.5	5	1
2	Wyatt	Skaggs	2	7.5	1	2
2	Wyatt	Skaggs	19	7.6	4	2
2	Wyatt	Skaggs	24	9.3	5	2
2	Wyatt	Skaggs	26	6.5	6	2
2	Wyatt	Skaggs	29	8.4	6	2
2	Wyatt	Skaggs	31	9.1	7	2

```

124
125 SELECT *
126 FROM reviewers
127 LEFT JOIN reviews
128 ON reviewers.id = reviews.reviewer_id;

```

id	first_name	last_name	id	rating	series_id	reviewer_id
5	Colt	Steele	25	9.9	5	5
5	Colt	Steele	30	9.1	6	5
5	Colt	Steele	32	9.7	7	5
5	Colt	Steele	36	9.3	8	5
5	Colt	Steele	41	4.5	9	5
5	Colt	Steele	42	9.9	10	5
6	Pinkie	Petit	9	8.4	2	6
6	Pinkie	Petit	12	7.5	3	6
6	Pinkie	Petit	35	8.8	8	6
6	Pinkie	Petit	40	4.3	9	6
7	Marlon	Crafford	NULL	NULL	NULL	NULL

48 rows in set (0.00 sec)

```

125 SELECT
126     first_name,
127     last_name,
128     rating
129 FROM reviewers
130 LEFT JOIN reviews
131     ON reviewers.id = reviews.reviewer_id;

```

first_name	last_name	rating
Thomas	Stoneman	8.0
Thomas	Stoneman	8.1
Thomas	Stoneman	7.0
Thomas	Stoneman	7.5
Thomas	Stoneman	9.5
Wyatt	Skaggs	7.5
Wyatt	Skaggs	7.6

```

125 SELECT
126     first_name,
127     last_name,
128     rating
129 FROM reviewers
130 LEFT JOIN reviews
131     ON reviewers.id = reviews.reviewer_id
132 GROUP BY reviewers.id;

```

first_file.sql	first_name	last_name	rating
like.sql	Thomas	Stoneman	8.0
problems.sql	Wyatt	Skaggs	7.5
	Kimbra	Masters	8.5
	Domingo	Cortes	7.7
	Colt	Steele	8.9
	Pinkie	Petit	8.4
	Marlon	Crafford	NULL

7 rows in set (0.01 sec)

Work	Logical Operators	125	SELECT
Commands	refining_selections	126	first_name,
Navigate	Relationships	127	last_name,
	CustomersOrders.sql	128	COUNT(rating)
	ReviewersMovies.sql	129	FROM reviews
	Schema	130	LEFT JOIN reviews
	Schema2.sql	131	ON reviews.id = reviews.reviewer_id
	StudentsPapers.sql	132	GROUP BY reviewers.id;
	Relationships.1	133	
	Relationships.2		
	exercises.sql		
	first_file.sql		
	like.sql		
	problems.sql		

first_name	last_name	COUNT(rating)
Thomas	Stoneman	5
Wyatt	Skaggs	9
Kimbra	Masters	9
Domingo	Cortes	10
Colt	Steele	10
Pinkie	Petit	4
Marlon	Crafford	0

7 rows in set (0.00 sec)

Work	Logical Operators	125	SELECT
Commands	refining_selections	126	first_name,
Navigate	Relationships	127	last_name,
	CustomersOrders.sql	128	COUNT(rating),
	ReviewersMovies.sql	129	MIN(rating)
	Schema	130	FROM reviews
	Schema2.sql	131	LEFT JOIN reviews
	StudentsPapers.sql	132	ON reviews.id = reviews.reviewer_id
	Relationships.1	133	GROUP BY reviewers.id;
	Relationships.2		
	exercises.sql		
	first_file.sql		
	like.sql		
	problems.sql		

first_name	last_name	COUNT(rating)	MIN(rating)
Thomas	Stoneman	5	7.0
Wyatt	Skaggs	9	5.5
Kimbra	Masters	9	6.8
Domingo	Cortes	10	5.8
Colt	Steele	10	4.5
Pinkie	Petit	4	4.3
Marlon	Crafford	0	NULL

Work	Logical Operators	125	SELECT
Commands	refining_selections	126	first_name,
Navigate	Relationships	127	last_name,
	CustomersOrders.sql	128	COUNT(rating) AS COUNT,
	ReviewersMovies.sql	129	IFNULL(MIN(rating), 0) AS MIN,
	Schema	130	IFNULL(MAX(rating), 0) AS MAX,
	Schema2.sql	131	FROM reviews
	StudentsPapers.sql	132	LEFT JOIN reviews
	Relationships.1		
	Relationships.2		
	exercises.sql		
	first_file.sql		
	like.sql		
	problems.sql		

first_name	last_name	COUNT	MIN	MAX
Thomas	Stoneman	5	7.0	9.5
Wyatt	Skaggs	9	5.5	9.3
Kimbra	Masters	9	6.8	9.0
Domingo	Cortes	10	5.8	9.1
Colt	Steele	10	4.5	9.9
Pinkie	Petit	4	4.3	8.8
Marlon	Crafford	0	0.0	0.0

7 rows in set (0.00 sec)

Work	Logical Operators	125	SELECT
Commands	refining_selections	126	first_name,
Navigate	Relationships	127	last_name,
	CustomersOrders.sql	128	COUNT(rating) AS COUNT,
	ReviewersMovies.sql	129	IFNULL(MIN(rating), 0) AS MIN,
	Schema	130	IFNULL(MAX(rating), 0) AS MAX,
	Schema2.sql	131	IFNULL(AVG(rating), 0) AS AVG
	StudentsPapers.sql	132	FROM reviews
	Relationships.1	133	LEFT JOIN reviews
	Relationships.2		
	exercises.sql		
	first_file.sql		
	like.sql		
	problems.sql		

first_name	last_name	COUNT	MIN	MAX	AVG
Thomas	Stoneman	5	7.0	9.5	8.02000
Wyatt	Skaggs	9	5.5	9.3	7.80000
Kimbra	Masters	9	6.8	9.0	7.98889
Domingo	Cortes	10	5.8	9.1	7.83000
Colt	Steele	10	4.5	9.9	8.77000
Pinkie	Petit	4	4.3	8.8	7.25000
Marlon	Crafford	0	0.0	0.0	0.00000

(267 Bytes) 125:1 SQL Spaces: 4

New	CustomersOrders.sql	135	CASE
Commands	ReviewersMovies.sql	136	WHEN COUNT(rating) >= 1 THEN 'ACTIVE'
	Schema	137	ELSE 'INACTIVE'
	Schema2.sql	138	END AS STATUS
	StudentsPapers.sql		

first_name	last_name	COUNT	MIN	MAX	AVG	STATUS
Thomas	Stoneman	5	7.0	9.5	8.02000	ACTIVE
Wyatt	Skaggs	9	5.5	9.3	7.80000	ACTIVE
Kimbra	Masters	9	6.8	9.0	7.98889	ACTIVE
Domingo	Cortes	10	5.8	9.1	7.83000	ACTIVE
Colt	Steele	10	4.5	9.9	8.77000	ACTIVE
Pinkie	Petit	4	4.3	8.8	7.25000	ACTIVE
Marlon	Crafford	0	0.0	0.0	0.00000	INACTIVE

first_name	last_name	COUNT	MIN	MAX	AVG	STATUS
Thomas	Stoneman	5	7.0	9.5	8.02	ACTIVE
Wyatt	Skaggs	9	5.5	9.3	7.80	ACTIVE
Kimbra	Masters	9	6.8	9.0	7.99	ACTIVE
Domingo	Cortes	10	5.8	9.1	7.83	ACTIVE
Colt	Steele	10	4.5	9.9	8.77	ACTIVE
Pinkie	Petit	4	4.3	8.8	7.25	ACTIVE
Marlon	Crafford	0	0.0	0.0	0.00	INACTIVE

first_name	last_name	COUNT	MIN	MAX	AVG	STATUS
Thomas	Stoneman	5	7.0	9.5	8.02	ACTIVE
Wyatt	Skaggs	9	5.5	9.3	7.80	ACTIVE
Kimbra	Masters	9	6.8	9.0	7.99	ACTIVE
Domingo	Cortes	10	5.8	9.1	7.83	POWER USER
Colt	Steele	10	4.5	9.9	8.77	POWER USER
Pinkie	Petit	4	4.3	8.8	7.25	ACTIVE
Marlon	Crafford	0	0.0	0.0	0.00	INACTIVE

title	rating	reviewer
Archer	8.0	Thomas Stoneman
Archer	7.7	Domingo Cortes
Archer	8.5	Kimbra Masters
Archer	7.5	Wyatt Skaggs
Archer	8.9	Colt Steele
Arrested Development	8.4	Pinkie Petit
Arrested Development	9.9	Colt Steele
Arrested Development	8.1	Thomas Stoneman
Arrested Development	6.0	Domingo Cortes
Arrested Development	8.0	Kimbra Masters
Bob's Burgers	7.0	Thomas Stoneman
Bob's Burgers	8.0	Domingo Cortes
Bob's Burgers	7.1	Kimbra Masters
Bob's Burgers	7.5	Pinkie Petit
Bob's Burgers	8.0	Colt Steele

id	first_name	last_name
1	Thomas	Stoneman
2	Wyatt	Skaggs
3	Kimbra	Masters
4	Domingo	Cortes
5	Colt	Steele
6	Pinkie	Petit
7	Marlon	Crafford

id	first_name	last_name	id	rating	series_id	reviewer_id
1	Thomas	Stoneman	1	8.0	1	1
1	Thomas	Stoneman	6	8.1	2	1
1	Thomas	Stoneman	11	7.0	3	1
1	Thomas	Stoneman	16	7.5	4	1
1	Thomas	Stoneman	21	9.5	5	1
2	Wyatt	Skaggs	2	7.5	1	2
2	Wyatt	Skaggs	19	7.6	4	2
2	Wyatt	Skaggs	24	9.3	5	2
2	Wyatt	Skaggs	26	6.5	6	2
2	Wyatt	Skaggs	29	8.4	6	2

id	first_name	last_name	id	rating	series_id	reviewer_id
1	Thomas	Stoneman	1	8.0	1	1
1	Thomas	Stoneman	6	8.1	2	1
1	Thomas	Stoneman	11	7.0	3	1
1	Thomas	Stoneman	16	7.5	4	1
1	Thomas	Stoneman	21	9.5	5	1
2	Wyatt	Skaggs	2	7.5	1	2
2	Wyatt	Skaggs	19	7.6	4	2
2	Wyatt	Skaggs	24	9.3	5	2
2	Wyatt	Skaggs	26	6.5	6	2
2	Wyatt	Skaggs	29	8.4	6	2

id	first_name	last_name	id	rating	series_id	reviewer_id	id	title
		released_year	genre					
1	Thomas	Stoneman	1	8.0	1	1	1	Archer
1	Thomas	Stoneman	6	8.1	2	1	2	Arrested Deve
1	Thomas	Stoneman	11	7.0	3	1	3	Bob's Burgers
1	Thomas	Stoneman	16	7.5	4	1	4	Bojack Horsem
1	Thomas	Stoneman	21	9.5	5	1	5	Breaking Bad

160	SELECT
161	title,
162	rating,
163	first_name,
164	last_name
165	FROM reviewers
166	INNER JOIN reviews
167	ON reviewers.id = reviews.reviewer_id

title	rating	first_name	last_name
Archer	8.0	Thomas	Stoneman
Arrested Development	8.1	Thomas	Stoneman
Bob's Burgers	7.0	Thomas	Stoneman
Bojack Horseman	7.5	Thomas	Stoneman
Breaking Bad	9.5	Thomas	Stoneman
Archer	7.5	Wyatt	Skaggs
Bojack Horseman	7.6	Wyatt	Skaggs

160	SELECT
161	title,
162	rating,
163	CONCAT(first_name, ' ', last_name) AS reviewer
164	FROM reviewers
165	INNER JOIN reviews
166	ON reviewers.id = reviews.reviewer_id
167	INNER JOIN series

title	rating	reviewer
Archer	8.0	Thomas Stoneman
Arrested Development	8.1	Thomas Stoneman
Bob's Burgers	7.0	Thomas Stoneman
Bojack Horseman	7.5	Thomas Stoneman
Breaking Bad	9.5	Thomas Stoneman
Archer	7.5	Wyatt Skaggs
Bojack Horseman	7.6	Wyatt Skaggs
Breaking Bad	9.3	Wyatt Skaggs
Curb Your Enthusiasm	6.5	Wyatt Skaggs
Curb Your Enthusiasm	8.4	Wyatt Skaggs

164	FROM reviewers
165	INNER JOIN reviews
166	ON reviewers.id = reviews.reviewer_id
167	INNER JOIN series
168	ON series.id = reviews.series_id
169	ORDER BY title;

title	rating	reviewer
Archer	8.0	Thomas Stoneman
Archer	7.7	Domingo Cortes
Archer	8.5	Kimbra Masters
Archer	7.5	Wyatt Skaggs
Archer	8.9	Colt Steele
Arrested Development	8.1	Thomas Stoneman
Arrested Development	6.0	Domingo Cortes
Arrested Development	8.0	Kimbra Masters
Arrested Development	8.4	Pinkie Petit
Arrested Development	9.9	Colt Steele