mID	title	Year	Director
101	Gone with the Wind	1939	 Victor Fleming
102	Star Wars	1977	George Lucas
103	The Sound of Music	1965	Robert Wise
104	E.T.	1982	Steven Spielberg
105	Titanic	1997	James Cameron
106	Snow White	1937	NULL
107	Avatar	2009	James Cameron
108	Raiders of the Lost Ark	1981	Steven Spielberg

+ rID	++ Name
201	Sarah Martinez
202	Daniel Lewis
203	Brittany Harris
204	Mike Anderson
205	Chris Jackson
206	Elizabeth Thomas
+	++

+ rID	mID	stars	ratingDate
201	101	2	2011-01-22
201	102	4	2011-01-27
202	106	4	NULL
203	103	2	2011-01-20
203	107	4	2011-01-12
203	108	2	2011-01-30
204	101	3	2011-01-09
205	103	3	2011-01-27
205	104	2	2011-01-22
205	107	5	2011-01-20
205	108	4	NULL
206	104	3	2011-01-02
206	106	5	2011-01-19
206	107	3	2011-01-15
+	+	H	++

Movie

Rating

Reviewer

SELECT * FROM Movie INNER JOIN Rating

ON Movie.mID = Rating.mID;

How many columns returned?

How many rows are returned?

Movie

	title		Director
	Gone with the Wind		Victor Fleming
			George Lucas
104		1982	Steven Spielberg
	Titanic		James Cameron
106	Snow White		NULL
	Avatar	2009	James Cameron
108	Raiders of the Lost Ark	1981	Steven Spielber

Reviewer



Rating

rID	mID	stars	ratingDate
201	101		2011-01-22
201	102		2011-01-27
202	106		NULL
203	103		2011-01-20
203	107		2011-01-12
203	108		2011-01-30
204	101		2011-01-09
205	103		2011-01-27
205	104		2011-01-22
205	107		2011-01-20
205	108		NULL
206	104		2011-01-02
206	106		2011-01-19
206	107		2011-01-15

SELECT * FROM Movie LEFT OUTER JOIN Rating

ON Movie.mID = Rating.mID;

•

How many columns returned?

How many rows are returned?

Movie

	title		Director
	Gone with the Wind		Victor Fleming
			George Lucas
104		1982	Steven Spielberg
	Titanic		James Cameron
	Snow White		NULL
	Avatar	2009	James Cameron
108	Raiders of the Lost Ark	1981	Steven Spielberg

Reviewer

rID	Name
201	Sarah Martinez
202	Daniel Lewis
203	Brittany Harris
204	Mike Anderson
205	Chris Jackson
206	Elizabeth Thomas

Rating

rID	mID	stars	ratingDate
201	101		2011-01-22
201	102		2011-01-27
202	106		NULL
203	103		2011-01-20
203	107		2011-01-12
203	108		2011-01-30
204	101		2011-01-09
205	103		2011-01-27
205	104		2011-01-22
205	107		2011-01-20
205	108		NULL
206	104		2011-01-02
206	106		2011-01-19
206	107		2011-01-15

SELECT * FROM Movie RIGHT OUTER JOIN Rating

ON Movie.mID = Rating.mID;

How many columns returned?

How many rows are returned?

Movie

	title		Director
	Gone with the Wind	1939	Victor Fleming
			George Lucas
		1965	Robert Wise
104		1982	Steven Spielberg
	Titanic		James Cameron
106	Snow White		NULL
	Avatar	2009	James Cameron
108	Raiders of the Lost Ark	1981	Steven Spielberg

Reviewer

rID	Name
201	Sarah Martinez
202	Daniel Lewis
203	Brittany Harris
204	Mike Anderson
205	Chris Jackson
206	Elizabeth Thomas
+	

Rating

rID	mID	stars	ratingDate
201	101		2011-01-22
201	102		2011-01-27
202	106		NULL
203	103		2011-01-20
203	107		2011-01-12
203	108		2011-01-30
204	101		2011-01-09
205	103		2011-01-27
205	104		2011-01-22
205	107		2011-01-20
205	108		NULL
206	104		2011-01-02
206	106		2011-01-19
206	107		2011-01-15
+			

SELECT * FROM Reviewer LEFT OUTER JOIN Rating

ON Reviewer.RID = Rating.RID;

How many columns returned?

How many rows are returned?

Movie

	title		
	Gone with the Wind		Victor Fleming
			George Lucas
104		1982	Steven Spielberg
	Titanic		James Cameron
	Snow White		NULL
			James Cameron
108	Raiders of the Lost Ark	1981	Steven Spielberg

Reviewer

rID	Name
201	Sarah Martinez
202	Daniel Lewis
203	Brittany Harris
204	Mike Anderson
205	Chris Jackson
206	Elizabeth Thomas
+	++

Rating

rID	mID	stars	ratingDate
201	101	2	2011-01-22
201	102		2011-01-27
202	106		NULL
203	103	2	2011-01-20
203	107		2011-01-12
203	108		2011-01-30
204	101		2011-01-09
205	103		2011-01-27
205	104		2011-01-22
205	107		2011-01-20
205	108		NULL
206	104		2011-01-02
206	106		2011-01-19
206	107		2011-01-15