

HAVING

NOW, LET'S BUILD ON JOINS AND GROUP  
BY, AND LEARN SOMETHING NEW

HAVING

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

## MOVIES

MovieID	MovieName	Year	Country
1	The Godfather	1972	USA
2	The Departed	2006	USA
3	Infernal Affairs	2002	Hong Kong
4	Parinda	1989	India
5	Gunda	1998	India
6	Little Caesar	1931	USA

## REVIEWS

MovieID	ReviewID	Review	RatingStars
1	1	Amazing	5
1	2	Genre-Defining	5
1	3	Classic	5
1	4	Overrated	1
1	5	OK, Not Great	3
1	6	Two Thumbs Up	5
3	7	Crossover Hit	5
3	8	Love It	4
3	9	Nailbiting!	5
1	10	Cinematic Masterpiece	5
5	11	So Bad Its Good	0
2	12	Not As Good As Original	3
2	13	Overrated	2
2	14	Too Morbid	3
4	15	Sad, Thought-Provoking	4
4	16	Cinema At Its Best	5

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

MOVIES

MovieID	MovieName	Year	Country

REVIEWS

MovieID	ReviewID	Review	RatingStars

## EASY-PEASY! 1 SIMPLE QUERY, WITH 4 STEPS

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

MOVIES

MovielD	MovieName	Year	Country

REVIEWS

MovielD	ReviewID	Review	RatingStars

EASY-PEASY! 1 SIMPLE QUERY, WITH 4 STEPS

JOIN

THE 2 TABLES ON MOVEID

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

MOVIES

MovieID	MovieName	Year	Country

REVIEWS

MovieID	ReviewID	Review	RatingStars

EASY-PEASY! 1 SIMPLE QUERY, WITH 4 STEPS

GROUP-BY  
MOVIE NAME

JOIN  
THE 2 TABLES ON  
MOVEID

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

MOVIES

MovieID	MovieName	Year	Country

REVIEWS

MovieID	ReviewID	Review	RatingStars

EASY-PEASY! 1 SIMPLE QUERY, WITH 4 STEPS

JOIN  
THE 2 TABLES ON  
MOVEID

HAVING  
MORE THAN 2 REVIEWS  
GROUP-BY  
MOVIE NAME

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

MOVIES

MovieID	MovieName	Year	Country

REVIEWS

MovieID	ReviewID	Review	RatingStars

EASY-PEASY! 1 SIMPLE QUERY, WITH 4 STEPS

AVG

THE RATINGS IN EACH GROUP

GROUP-BY  
MOVIE NAME

HAVING  
MORE THAN 2  
REVIEWS

JOIN  
THE 2 TABLES ON  
MOVEID

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

MOVIES

MovielD	MovieName	Year	Country

REVIEWS

MovielD	ReviewID	Review	RatingStars

EASY-PEASY! 1 SIMPLE QUERY, WITH 4 STEPS

✓ JOIN  
THE 2 TABLES ON  
MOVEID

✓ GROUP-BY  
MOVIE NAME

NEW  
HAVING  
MORE THAN 2  
REVIEWS

✓ AVG  
THE RATINGS IN  
EACH GROUP

# HAVING

IS AN OPERATOR THAT TESTS WHETHER SUB-GROUPS SATISFY A GIVEN CONDITION

HAVING IS SIMILAR TO WHERE - BOTH OPERATORS ARE FOLLOWED BY A CONDITION

WHERE OPERATES ON INDIVIDUAL ROWS

HAVING WORKS ON SUB-GROUPS CREATED BY GROUP-BY

# HAVING

IS AN OPERATOR THAT TESTS WHETHER SUB-GROUPS SATISFY A GIVEN CONDITION

HAVING IS SIMILAR TO WHERE - BOTH OPERATORS ARE FOLLOWED BY A CONDITION

WHERE OPERATES ON INDIVIDUAL ROWS

HAVING WORKS ON SUB-GROUPS CREATED BY GROUP-BY

HAVING ALWAYS MUST BE USED ALONG WITH AGGREGATE OPERATORS

# HAVING

HAVING ALWAYS MUST BE USED  
ALONG WITH AGGREGATE OPERATORS

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

SELECT

M. MOVIE NAME ,  
AVG (R. RATING STARS)

FROM

MOVIES M

INNER JOIN

REVIEWS R

ON

M. MOVIE ID = R. MOVIE ID

GROUP BY MOVIE NAME

HAVING COUNT (REVIEW ID) >= 2 ;

JOIN  
THE 2 TABLES ON  
MOVE ID  
GROUP-BY  
MOVIE NAME

NEW HAVING  
MORE THAN 2  
REVIEWS

AVG  
THE RATINGS IN  
EACH GROUP

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

SELECT

M. MOVIENAME ,  
AVG (R. RATINGSTARS)

JOIN  
THE 2 TABLES ON  
MOVEID

FROM

MOVIES M

INNER JOIN

REVIEWS R

ON

M. MOVIEID = R. MOVIEID

GROUP BY MOVIE NAME

HAVING COUNT (REVIEWID) >= 2 ;

# JOIN THE 2 TABLES ON MOVIEID

MovielD	MovieName	Year	Country
1	The Godfather	1972	USA
2	The Departed	2006	USA
3	Infernal Affairs	2002	Hong Kong
4	Parinda	1989	India
5	Gunda	1998	India
6	Little Caesar	1931	USA

**INPUT #1**

**MOVIES M**  
**INNER JOIN**  
**REVIEWS R**  
**ON**  
**M.MOVIEID = R.MOVIEID**

MovielD	ReviewID	Review	Rating
1	1	Amazing	5
1	2	Genre-Defining	5
1	3	Classic	5
1	4	Overrated	1
1	5	OK. Not Great	3
1	6	Two Thumbs Up	5
3	7	Crossover Hit	5
3	8	Love It	4
3	9	Nailbiting!	5
1	10	Cinematic Masterpiece	5
5	11	So Bad Its Good	0
2	12	Not As Good As Original	3
2	13	Overrated	2
2	14	Too Morbid	3
4	15	Sad, Thought-Provoking	4
4	16	Cinema At Its Best	5

**INPUT #2**

MovielD	MovieName	Year	Country	MovielD	R	Review	RatingStars
1	The Godfather	1972	USA	1	1	Amazing	5
1	The Godfather	1972	USA	1	2	Genre-Defining	5
1	The Godfather	1972	USA	1	3	Classic	5
1	The Godfather	1972	USA	1	4	Overrated	1
1	The Godfather	1972	USA	1	5	OK, Not Great	3
1	The Godfather	1972	USA	1	6	Two Thumbs Up	5
1	The Godfather	1972	USA	1	10	Cinematic Masterpiece	5
2	The Departed	2006	USA	2	12	Not As Good As	3
2	The Departed	2006	USA	2	13	Overrated	2
2	The Departed	2006	USA	2	14	Too Morbid	3
3	Infernal Affairs	2002	Hong Kong	3	7	Crossover Hit	5
3	Infernal Affairs	2002	Hong Kong	3	8	Love It	4
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4	Parinda	1989	India	4	15	Sad, Thought-	4
4	Parinda	1989	India	4	16	Cinema At Its Best	5
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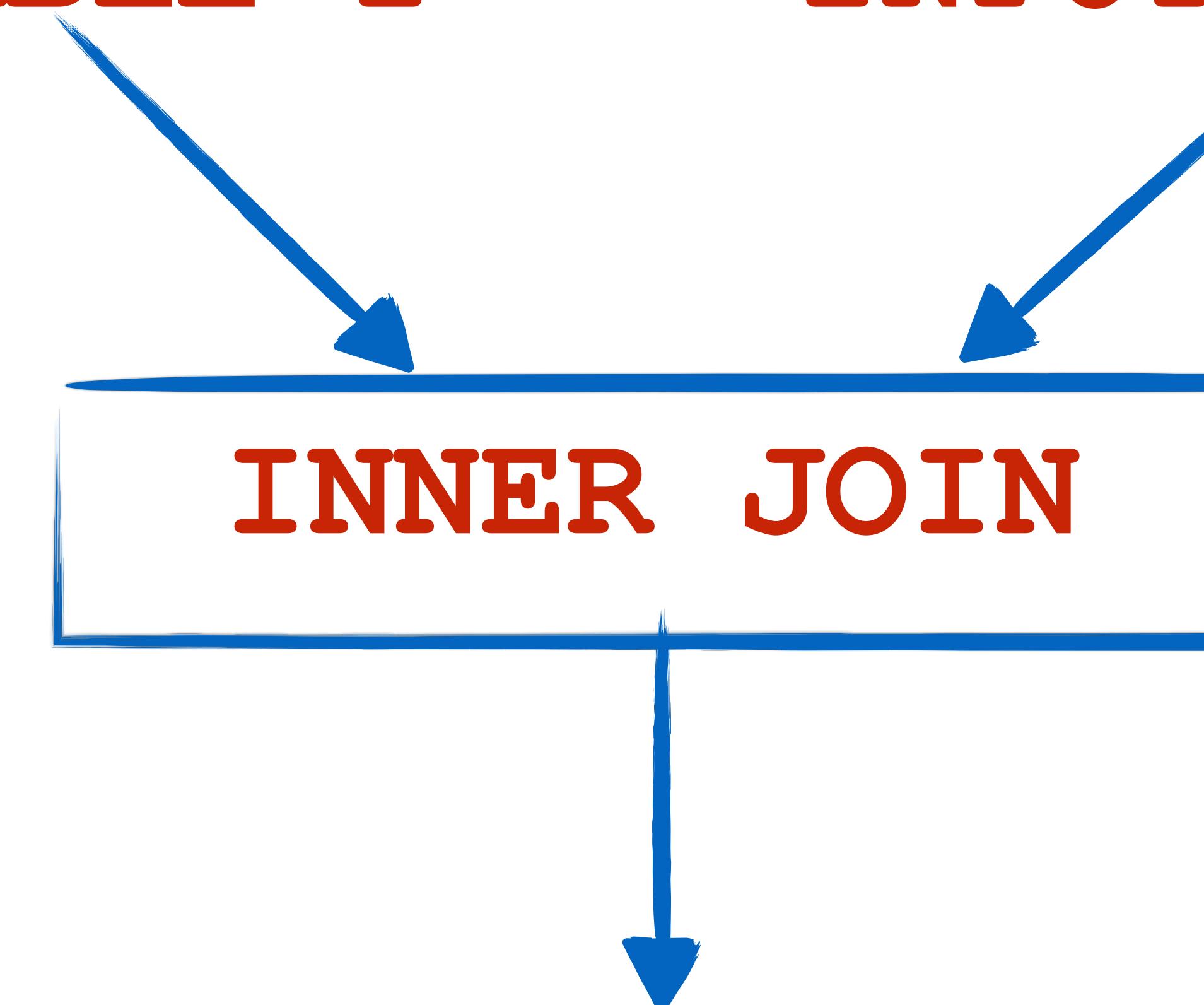
**OUTPUT**

M COLUMNS, X ROWS

INPUT TABLE 1

N COLUMNS, Y ROWS

INPUT TABLE 2



OUTPUT TABLE

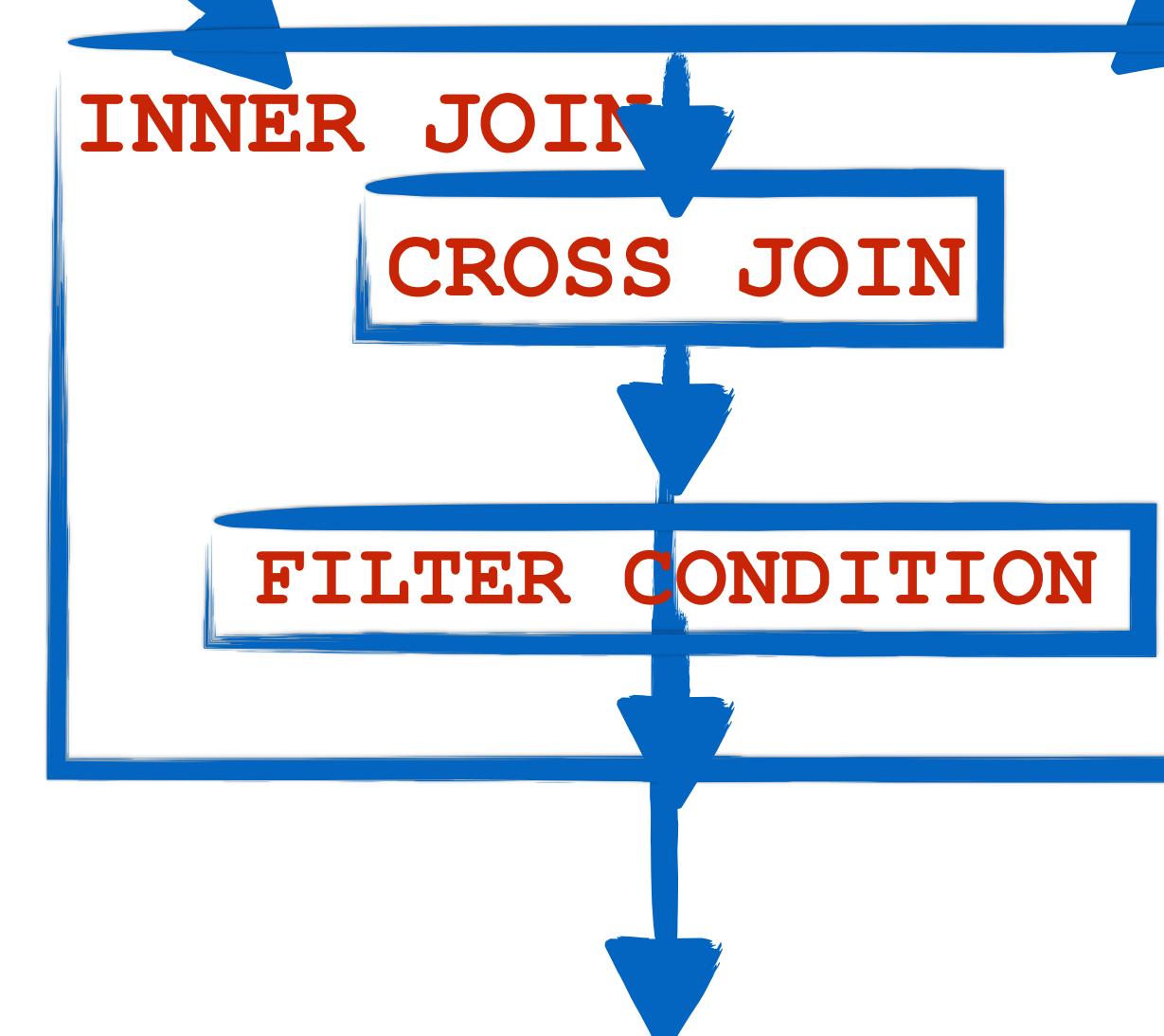
M+N COLUMNS,  $\leq X \times Y$  ROWS

M COLUMNS, X ROWS

INPUT TABLE 1

N COLUMNS, Y ROWS

INPUT TABLE 2



OUTPUT TABLE

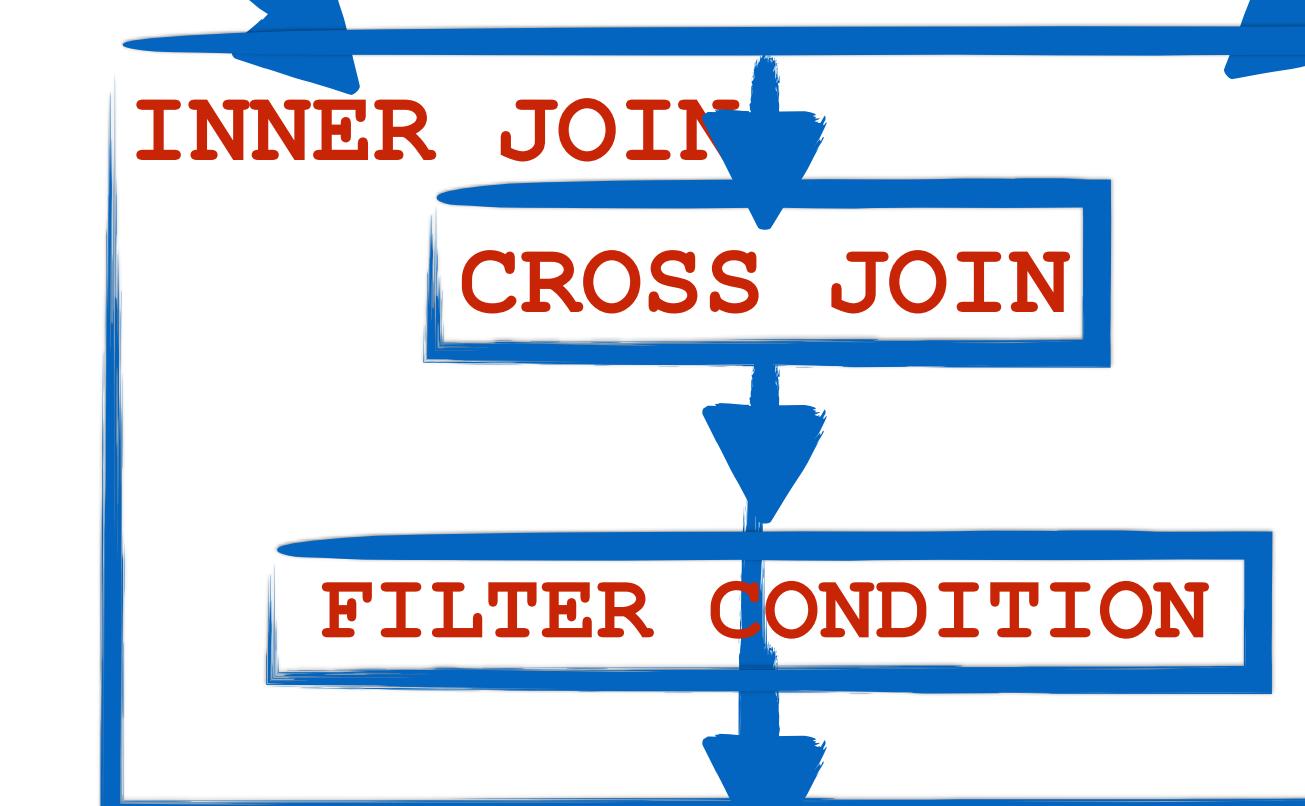
M+N COLUMNS, <=X\*Y ROWS

M COLUMNS, X ROWS

INMOVABLE 1

N COLUMNS, Y ROWS

INREVIEABLE 2



MOVIES INNER JOIN REVIEWS ON MOVIEID  
OUTPUT TABLE

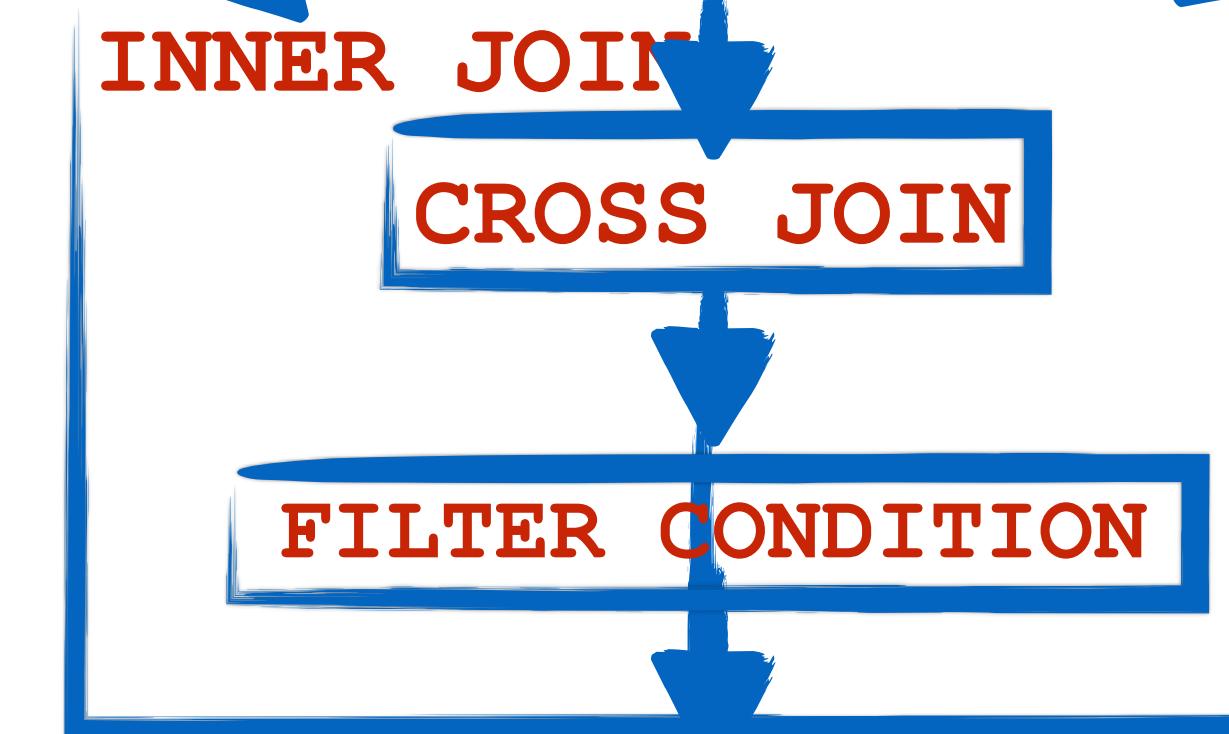
M+N COLUMNS, <=X\*Y ROWS

MovielD	MovieName	Year	Country

MovielD	ReviewID	Review	RatingStars

# MOVIES

# REVIEWS



MOVIES INNER JOIN REVIEWS ON MOVIEID

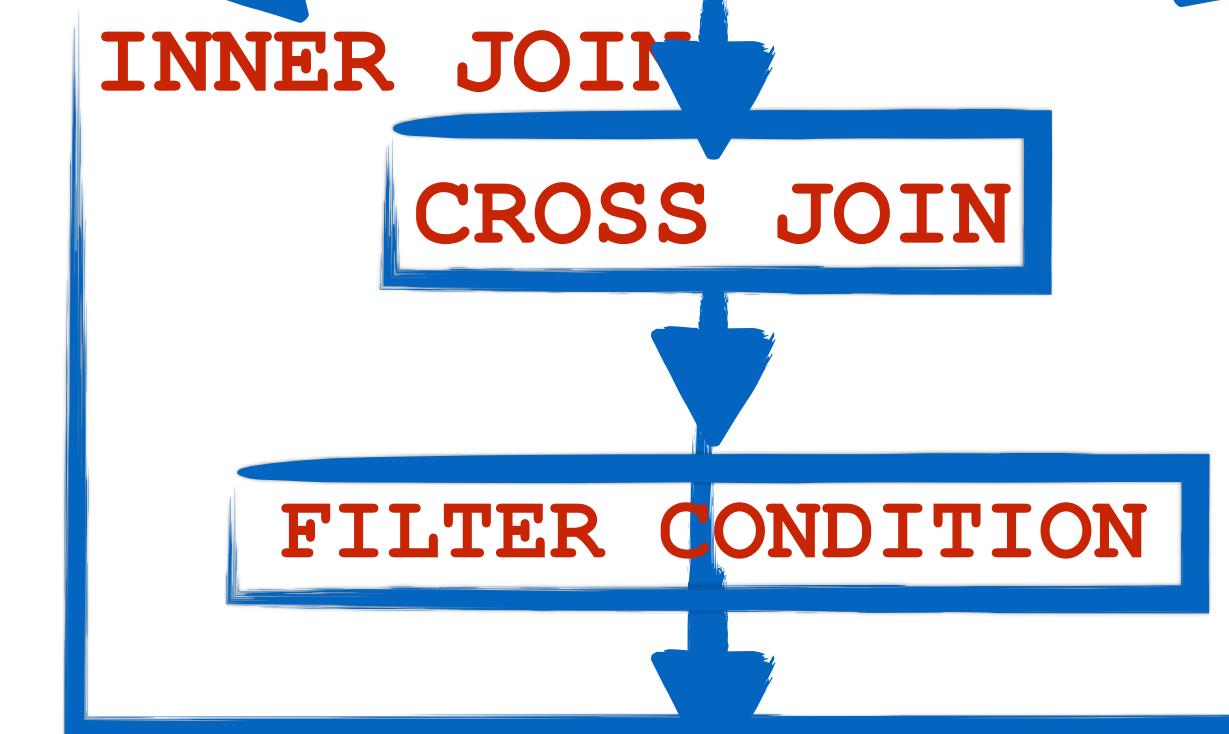
MovielD	MovieName	Year	Country	MovielD	ReviewID	Review	RatingStars

MovielD	MovieName	Year	Country

MovielD	ReviewID	Review	RatingStars

# MOVIES

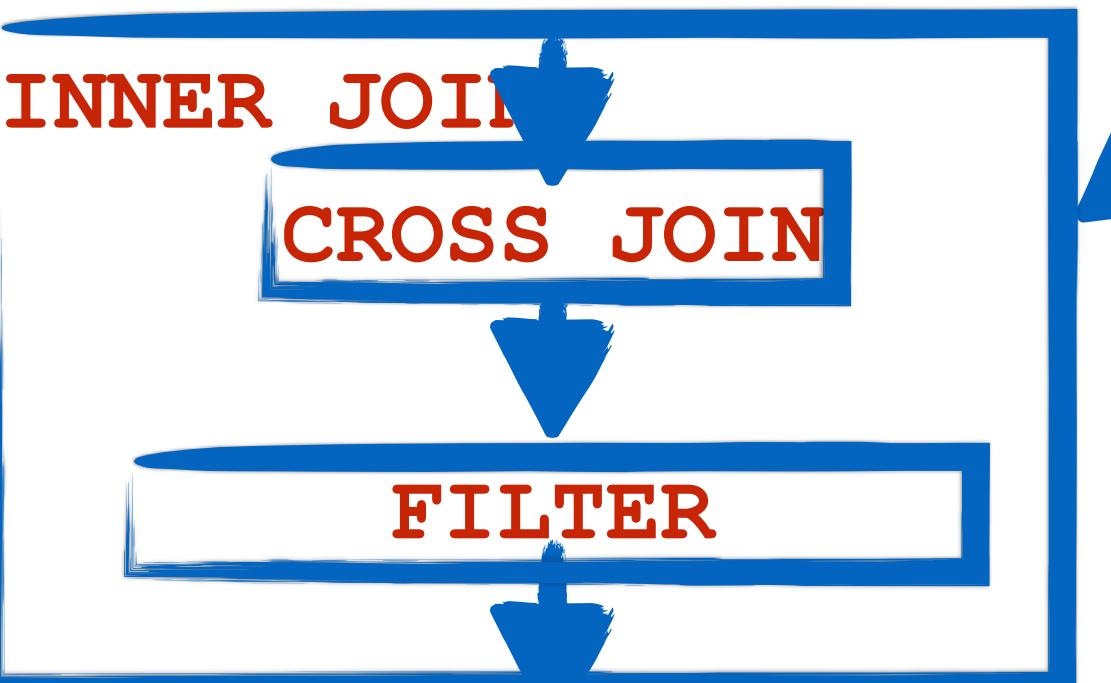
# REVIEWS



MOVIES INNER JOIN REVIEWS ON MOVIEID

MovielD	MovieName	Year	Country	MovielD	ReviewID	Review	RatingStars

MovielD	MovieName	Year	Country
1	The Godfather	1972	USA
2	The Departed	2006	USA
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6	Little Caesar	1931	USA

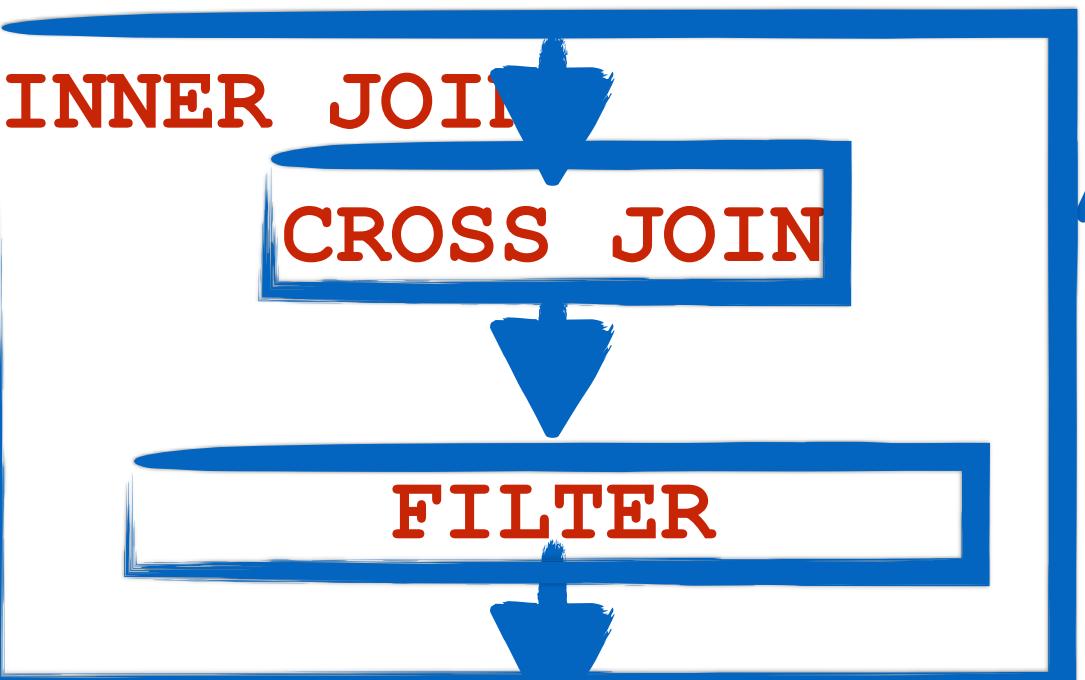


MovielD	ReviewID	Review	Rating
1	1	Amazing	5
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3	7	Crossover Hit	5
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2	14	Too Morbid	3
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# MOVIES INNER JOIN REVIEWS ON MOVIEID

# FIRST, THE CROSS JOIN

MovielD	MovieName	Year	Country
1	The Godfather	1972	USA
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1	6	Two Thumbs Up	5
		Crossover Hit	5
3	8	Love It	4
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5	11	So Bad Its Good	0
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2	13	Overrated	2
2	14	Too Morbid	3
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# MOVIES INNER JOIN REVIEWS ON MOVIEID

# JOIN THE 2 TABLES ON MOVIEID

MovielD	MovieName	Year	Country
1	The Godfather	1972	USA
2	The Departed	2006	USA
3	Infernal Affairs	2002	Hong Kong
4	Parinda	1989	India
5	Gunda	1998	India
6	Little Caesar	1931	USA

**INPUT #1**

**MOVIES M**  
**INNER JOIN**  
**REVIEWS R**  
**ON**  
**M.MOVIEID = R.MOVIEID**

MovielD	ReviewID	Review	Rating
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**INPUT #2**

MovielD	MovieName	Year	Country	MovielD	R	Review	RatingStars
1	The Godfather	1972	USA	1	1	Amazing	5
1	The Godfather	1972	USA	1	2	Genre-Defining	5
1	The Godfather	1972	USA	1	3	Classic	5
1	The Godfather	1972	USA	1	4	Overrated	1
1	The Godfather	1972	USA	1	5	OK, Not Great	3
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3	Infernal Affairs	2002	Hong Kong	3	8	Love It	4
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4	Parinda	1989	India	4	16	Cinema At Its Best	5
5	Gunda	1998	India	5	11	So Bad Its Good	0

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SELECT

M. MOVIENAME ,  
AVG (R. RATINGSTARS)

JOIN  
THE 2 TABLES ON  
MOVEID

FROM

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INNER JOIN

REVIEWS R

ON

M. MOVIEID = R. MOVIEID

GROUP BY MOVIE NAME

HAVING COUNT (REVIEWID) >= 2 ;

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THE 2 TABLES ON  
MOVEID

GROUP-BY  
MOVIE NAME

# GROUP-BY MOVIE NAME

## GROUP BY MOVIENAME

MovielD	MovieName	Year	Country	MovielD	R	Review	RatingStars
1	The Godfather	1972	USA	1	1	Amazing	5
1	The Godfather	1972	USA	1	2	Genre-Defining	5
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# GROUP-BY MOVIE NAME

## GROUP BY MOVIE NAME

MovielD	MovieName	Year	Country	MovielD	R	Review	RatingStars
1	The Godfather	1972	USA	1	1	Amazing	5
1	The Godfather	1972	USA	1	2	Genre-Defining	5
1	The Godfather	GROUP 'THE GODFATHER'				Classic	5
1	The Godfather	1972	USA	1	4	Overrated	1
1	The Godfather	1972	USA	1	5	OK, Not Great	3
1	The Godfather	1972	USA	1	6	Two Thumbs Up	5
1	The Godfather	1972	USA	1	10	Cinematic Masterpiece	5
2	The Departed	2006	USA	2	12	Not As Good As Original	3
2	The Departed	GROUP 'THE DEPARTED'				Overrated	2
2	The Departed	2006	USA	2	14	Too Morbid	3
3	Infernal Affairs	GROUP 'INFERNAL AFFAIRS'				Crossover Hit	5
3	Infernal Affairs	GROUP 'INFERNAL AFFAIRS'				Love It	4
3	Infernal Affairs	2002	Hong Kong	3	9	Nailbiting!	5
4	Parinda	GROUP 'PARINDA'				Sad, Thought-Provoking	4
4	Parinda	1989	India	4	16	Cinema At Its Best	5
5	Gunda	GROUP 'GUNDA'				So Bad Its Good	0

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

SELECT

M. MOVIENAME ,  
AVG (R. RATINGSTARS)

FROM

MOVIES M

INNER JOIN

REVIEWS R

ON

M. MOVIEID = R. MOVIEID

GROUP BY MOVIE NAME

HAVING COUNT (REVIEWID) >= 2 ;

JOIN  
THE 2 TABLES ON  
MOVEID

GROUP-BY  
MOVIE NAME

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

SELECT

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INNER JOIN

REVIEWS R

ON

M. MOVIEID = R. MOVIEID

GROUP BY MOVIENAME

HAVING COUNT (REVIEWID) >= 2 ;

JOIN  
THE 2 TABLES ON  
MOVEID

GROUP-BY  
MOVIE NAME

NEW

HAVING  
MORE THAN 2  
REVIEWS

# GROUP-BY MOVIE NAME

GROUP BY  
MOVIE NAME

NEW

HAVING  
MORE THAN 2  
REVIEWS

HAVING  
COUNT (REVIEWID)  
 $\geq 2$ ;

MovielD	MovieName	Year	Country	MovielD	R	Review	RatingStars
1	The Godfather	1972	USA	1	1	Amazing	5
1	The Godfather	1972	USA	1	2	Genre-Defining	5
1	<b>GROUP 'THE GODFATHER'</b>			USA	1	Classic	5
1	<b>GROUP 'THE GODFATHER'</b>			USA	1	COUNT(REVIEWID) = 7	1
1	The Godfather	1972	USA	1	5	OK, Not Great	3
1	The Godfather	1972	USA	1	6	Two Thumbs Up	5
1	The Godfather	1972	USA	1	10	Cinematic Masterpiece	5
2	The Departed	2006	USA	2	12	Not As Good As Original	3
2	<b>GROUP 'THE DEPARTED'</b>			USA	2	COUNT(REVIEWID) = 3	2
2	The Departed	2006	USA	2	14	Too Morbid	3
3	Infernal Affairs	2002	Hong Kong	3	7	Crossover Hit	5
3	<b>GROUP 'INFERNAL AFFAIRS'</b>			Hong Kong	3	COUNT(REVIEWID) = 3	4
3	Infernal Affairs	2002	Hong Kong	3	9	Nailbiting!	5
4	<b>GROUP 'PARINDA'</b>			India	4	Sad Thought	4
4	Parinda	1989	India	4	16	Demands Adults Best	5
5	<b>GROUP 'GUNDA'</b>			India	5	COUNT(REVIEWID) = 1	0

# GROUP-BY MOVIE NAME

# GROUP BY MOVIE NAME

# NEW

# HAVING MORE THAN 2 REVIEWS

HAVING  
COUNT (REVIEWID)  
>= 2 ;

MovieID	MovieName	Year	Country	MovieID	R	Review	RatingStars
1	The Godfather	1972	USA	1	1	Amazing	5
1	The Godfather	1972	USA	1	2	Genre-Defining	5
1	The God					Classic	5
1	The God					<b>VIEWID) = 7</b>	1
1	The God					OK, Not Great	3
1	The God					Two Thumbs Up	5
1	The God					Cinematic Masterpiece	5
1	The God					Not As Good As Original	3
2	The Dep					<b>VIEWID) = 3</b>	2
2	The Dep					Too Morbid	3
2	The Dep					Crossover Hit	5
3	Infernal					<b>VIEWID) = 3</b>	4
3	Infernal					Nailbiting!	5
3	Infernal Affairs	2002	Hong Kong	3	9	Sad Thought	4
4	Parinda	1989	India			<b>COUNT(REVIEWID) = 2</b>	4
4	Parinda	1989	India			Demands Best	5
5	GROUP 'GUNDA'		India			<b>COUNT(REVIEWID) = 1</b>	0

# GROUP-BY MOVIE NAME

GROUP BY  
MOVIE NAME

NEW

HAVING  
MORE THAN 2  
REVIEWS

HAVING  
COUNT (REVIEWID)  
 $\geq 2$ ;

MovielD	MovieName	Year	Country	MovielD	R	Review	RatingStars
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1	The Godfather	1972	USA	1	2	Genre-Defining	5
1	The Godfather	1972	USA	<b>COUNT(REVIEWID) = 7</b>			5
1	The Godfather	1972	USA	1	4	Overrated	1
1	The Godfather	1972	USA	1	5	OK, Not Great	3
1	The Godfather	1972	USA	1	6	Two Thumbs Up	5
1	The Godfather	1972	USA	1	10	Cinematic Masterpiece	5
2	The Departed	2006	USA	2	12	NOT AS Good As Original	3
2	The Departed	2006	USA	<b>COUNT(REVIEWID) = 3</b>			2
2	The Departed	2006	USA	2	14	Too Morbid	3
3	Infernal Affairs	2002	Hong Kong	3	7	Crossover Hit	5
3	Infernal Affairs	2002	Hong Kong	<b>COUNT(REVIEWID) = 3</b>			4
3	Infernal Affairs	2002	Hong Kong	3	9	Nailbiting!	5
4	Parinda	1989	India	<b>COUNT(REVIEWID) = 2</b>			4
4	Parinda	1989	India	4	16	Cinema At Its Best	5

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

SELECT

M. MOVIENAME ,  
AVG (R. RATINGSTARS)

FROM

MOVIES M

INNER JOIN

REVIEWS R

ON

M. MOVIEID = R. MOVIEID

GROUP BY MOVIENAME

HAVING COUNT (REVIEWID) >= 2 ;

JOIN  
THE 2 TABLES ON  
MOVEID

GROUP-BY  
MOVIE NAME

NEW

HAVING  
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INNER JOIN

REVIEWS R

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M. MOVIE ID = R. MOVIE ID

GROUP BY MOVIE NAME

HAVING COUNT (REVIEW ID)  $\geq$  2 ;

THE AVG RATINGS IN EACH GROUP

JOIN  
THE 2 TABLES ON  
MOVEID

GROUP-BY  
MOVIE NAME

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MORE THAN 2  
REVIEWS

**AVG  
THE RATINGS IN  
EACH GROUP**

**SELECT**

**M . MOVIENTAME ,  
AVG (R . RATINGSTARS)**

MovieID	MovieName	Year	Country	MovieID	R	Review	RatingStars
1	The Godfather	1972	USA	1	1	Amazing	5
1	The Godfather	1972	USA	1	2	Genre-Defining	5
1	The Godfather	1972	USA	1	3	Classic	5
1	<b>GROUP 'THE GODFATHER'</b>				<b>AVG(RATINGSTARS) = 4.15</b>		
1	The Godfather	1972	USA	1	5	OK, Not Great	3
1	The Godfather	1972	USA	1	6	Two Thumbs Up	5
1	The Godfather	1972	USA	1	10	Cinematic Masterpiece	5
2	The Departed	2006	USA	2	12	Not As Good As Original	3
2	<b>GROUP 'THE DEPARTED'</b>				<b>AVG(RATINGSTARS) = 2.67</b>		
2	The Departed	2006	USA	2	14	Too Morbid	3
3	Infernal Affairs	2002	Hong Kong	3	7	Crossover Hit	5
3	<b>GROUP 'INFERNAL AFFAIRS'</b>				<b>AVG(RATINGSTARS) = 4.67</b>		
3	Infernal Affairs	2002	Hong Kong	3	9	Nailbiting!	5
4	<b>GROUP 'PARINDA'</b>				<b>AVG(RATINGSTARS) = 4.5</b>		
4	Parinda	1989	India	4	16	Sad, Thought-Provoking Cinema At Its Best	5

**AVG  
THE RATINGS IN  
EACH GROUP**

**SELECT**

**M . MOVIENAME ,  
AVG (R . RATINGSTARS)**

<b>MovieName</b>	<b>RatingStars</b>
The Godfather	4.15
The Departed	2.67
Infernal Affairs	4.67
Parinda	4.5

# LET'S FIND THE AVG RATING OF ALL MOVIES HAVING AT LEAST 2 REVIEWS

SELECT

M. MOVIE NAME ,  
AVG (R. RATING STARS)

FROM

MOVIES M

INNER JOIN

REVIEWS R

ON

M. MOVIE ID = R. MOVIE ID

GROUP BY MOVIE NAME

HAVING COUNT (REVIEW ID)  $\geq$  2 ;

THE AVG RATINGS IN EACH GROUP

JOIN  
THE 2 TABLES ON  
MOVEID

GROUP-BY  
MOVIE NAME

NEW

HAVING  
MORE THAN 2  
REVIEWS

BEARS  
REPEATING

# HAVING

IS AN OPERATOR THAT TESTS WHETHER SUB-GROUPS SATISFY A GIVEN CONDITION

HAVING IS SIMILAR TO WHERE - BOTH OPERATORS ARE FOLLOWED BY A CONDITION

WHERE OPERATES ON INDIVIDUAL ROWS

HAVING WORKS ON SUB-GROUPS CREATED BY GROUP-BY

BEARS  
REPEATING

# HAVING

IS AN OPERATOR THAT TESTS WHETHER SUB-GROUPS SATISFY A GIVEN CONDITION

HAVING IS SIMILAR TO WHERE - BOTH OPERATORS ARE FOLLOWED BY A CONDITION

WHERE OPERATES ON INDIVIDUAL ROWS

HAVING WORKS ON SUB-GROUPS CREATED BY GROUP-BY

HAVING ALWAYS MUST BE USED ALONG WITH AGGREGATE OPERATORS