

## Week 3, Homework 1 – SQL Basic Solutions

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### #1. Directors and Their Departments

- Code

```
SELECT name, department  
FROM directors
```

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- Output

	name	department
1	James Cameron	Directing
2	Gore Verbinski	Directing
3	Sam Mendes	Directing
4	Christopher Nolan	Directing
5	Andrew Stanton	Directing
6	Sam Raimi	Directing
7	Byron Howard	Directing

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### #2. Popular Movies

- Code

```
SELECT title  
FROM movies  
WHERE popularity > 5
```

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- Output

	title
1	Avatar
2	Pirates of the Caribbean: At World's End
3	Spectre
4	The Dark Knight Rises
5	John Carter
6	Spider-Man 3
7	Tangled

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### #3. Directors in the Directing Department

- Code

```
SELECT name, id  
FROM directors  
WHERE department = "Directing" AND gender=2
```

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- Output

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	name	id
1	James Cameron	4762
2	Gore Verbinski	4763
3	Sam Mendes	4764
4	Christopher Nolan	4765
5	Andrew Stanton	4766
6	Sam Raimi	4767
7	Byron Howard	4768

#### #4. Directors with 'Sam' in Their Name

- Code

```
SELECT name
FROM directors
WHERE name LIKE '%Sam%'
```

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- Output

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	name
1	Sam Mendes
2	Sam Raimi
3	Sam Fell
4	Sam Weisman
5	Karyn Kusama
6	Sam Taylor-Johnson
7	Sam Miller

#### #5. First 10 Movies by Release Date

- Code

```
SELECT title, release_date
FROM movies
ORDER BY release_date ASC
LIMIT 10;
```

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- Output

- |   | title               | release_date |
|---|---------------------|--------------|
| 1 | Intolerance         | 1916-09-04   |
| 2 | The Big Parade      | 1925-11-05   |
| 3 | Metropolis          | 1927-01-10   |
| 4 | Pandora's Box       | 1929-01-30   |
| 5 | The Broadway Melody | 1929-02-08   |
| 6 | Hell's Angels       | 1930-11-15   |
| 7 | A Farewell to Arms  | 1932-12-08   |

## #6. 'Star' Movies with High Ratings

- Code

```
SELECT title, vote_average
FROM movies
WHERE title LIKE '%Star%' AND vote_average > 7
```

- Output

- |   | title  | vote_average |
|---|--|--------------|
| 1 | Star Trek Into Darkness                      | 7.4          |
| 2 | Star Trek                                    | 7.4          |
| 3 | Star Wars: Episode III - Revenge of the Sith | 7.1          |
| 4 | Stardust                                     | 7.1          |
| 5 | Star Trek II: The Wrath of Khan              | 7.3          |
| 6 | The Fault in Our Stars                       | 7.6          |
| 7 | Star Wars                                    | 8.1          |

## #7. Movies with Limited Revenue (1995-2000)

- Code

```
SELECT title, release_date, revenue
FROM movies
WHERE date(release_date) BETWEEN '1995-01-01' AND '2000-12-31' AND (revenue <= 10000000)
```

- You can also do ORDER BY date(release\_date) at the end to check if the dates are between those days

- Output

- |   | title             | release_date | revenue |
|---|-------------------|--------------|---------|
| 1 | Volcano           | 1997-04-25   | 0       |
| 2 | Déjà Vu           | 1998-04-22   | 0       |
| 3 | Mighty Joe Young  | 1998-12-25   | 0       |
| 4 | Little Nicky      | 2000-11-10   | 0       |
| 5 | Inspector Gadget  | 1999-07-23   | 0       |
| 6 | Anna and the King | 1999-12-16   | 0       |
| 7 | Primary Colors    | 1998-03-20   | 0       |

## #8. Directors with Specific 'uid' Values

- Code

```
SELECT name, uid
FROM directors
WHERE uid > 7000 OR uid < 100
```

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- Output

	name	uid
1	Sam Mendes	39
2	Andrew Stanton	7
3	Sam Raimi	7623
4	Byron Howard	76595
5	Joss Whedon	12891
6	David Yates	11343
7	Zack Snyder	15217

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## #9. Movies with Specific Vote Counts

- Code

```
SELECT title, vote_count, vote_average
FROM movies
WHERE (vote_count BETWEEN 50 AND 100) AND vote_average=7
```

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- Output

	title	vote_count	vote_average
1	Angela's Ashes	59	7.0
2	A Better Life	54	7.0
3	Red Riding: In the Year of Our Lord 1974	54	7.0
4	Quo Vadis	63	7.0
5	Another Year	97	7.0
6	Salvador	71	7.0
7	The Black Stallion	59	7.0

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## #10. Directors Named 'John' with Specific 'uid' Values

- Code

```
SELECT name, uid
FROM directors
WHERE name LIKE '%John%' AND uid BETWEEN 5000 AND 10000
```

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- Output

	name	uid
1	John Lasseter	7879
2	John Milius	8328
3	John Singleton	6482
4	John Guillermin	6778
5	John McNaughton	9200
6	John Ottman	9039
7	John Huston	6593

## #11. Movies with Odd 'uid' and Even Vote Count

- Code

```
SELECT title, uid, vote_count
FROM movies
WHERE uid % 2 = 1 AND vote_count % 2 = 0 AND vote_count > 500
```

- Output

	title	uid	vote_count
1	Avatar	19995	11800
2	Pirates of the Caribbean: At World's End	285	4500
3	Spectre	206647	4466
4	John Carter	49529	2124
5	Spider-Man 3	559	3576
6	Tangled	38757	3330
7	Pirates of the Caribbean: On Stranger Tides	1865	4948

## #12. Movies with Specific Ratings or Budgets

- Code

```
SELECT title, vote_average, vote_count, budget
FROM movies
WHERE (vote_average BETWEEN 6 and 8 AND vote_count=200) OR (budget BETWEEN 100000 and 500000)
```

- Output

	title	vote_average	vote_count	budget
1	Mean Streets	7.2	345	500000
2	Halloween	7.4	1035	300000
3	Control	7.5	200	0
4	Snow Flower and the Secret Fan	5.3	22	134005
5	Night of the Living Dead	7.5	580	114000
6	Sleeper	7.0	200	2000000
7	Stitches	5.5	92	100000

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