

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

- | | 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

- | | 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
```

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- 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)
```

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- 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
```

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- 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)
```

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- Output

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| | 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 |