

Database Management

Group 5: Oscars

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Theme & Data Source

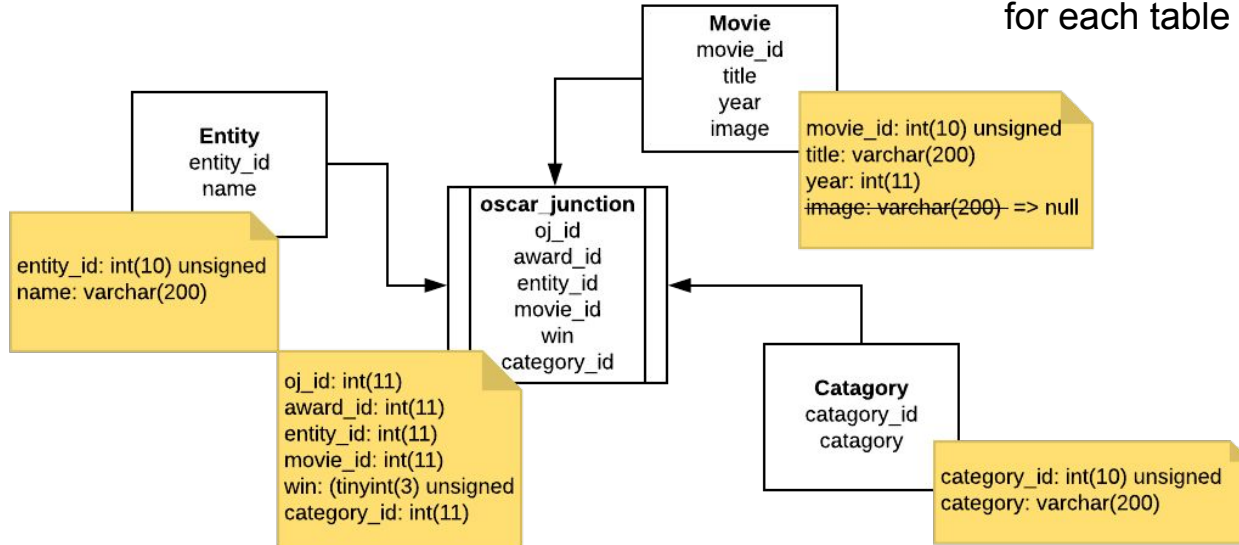
The theme for our database was Oscars nominees and winners. We used a dataset from Kaggle¹ which matched the Oscars award information available on the Academy of Motion Picture Arts and Science website². This dataset included all Oscars nominees from 1927 to 2015, but the data included was messy. There were multiple values in each column and many rows had values in the wrong columns. We cleaned the data from 1927 to 1940 which left us with 1,410 rows to work with.

¹ <https://www.kaggle.com/theacademy/academy-awards>

² <https://www.oscars.org/oscars/ceremonies>

Data Structure

- 3 independent tables and 1 junction table
- the *_id field is the primary key for each table



Database & Tables

```
[MariaDB [oscars]> describe movie;
```

| Field | Type | Null | Key | Default | Extra |
|----------|------------------|------|-----|---------|----------------|
| movie_id | int(10) unsigned | NO | PRI | NULL | auto_increment |
| title | varchar(200) | YES | | NULL | |
| year | int(11) | YES | | NULL | |
| image | varchar(200) | YES | | NULL | |

Movie

Describes the nominated film

Category

Describes the type of Oscars award

```
[MariaDB [oscars]> describe category;
```

| Field | Type | Null | Key | Default | Extra |
|-------------|------------------|------|-----|---------|----------------|
| category_id | int(10) unsigned | NO | PRI | NULL | auto_increment |
| category | varchar(200) | YES | | NULL | |

Database & Tables

```
[MariaDB [oscars]> describe entity;
```

| Field | Type | Null | Key | Default | Extra |
|-----------|------------------|------|-----|---------|----------------|
| entity_id | int(10) unsigned | NO | PRI | NULL | auto_increment |
| name | varchar(200) | YES | | NULL | |

Entity

Describes the person or corporation nominated

Junction

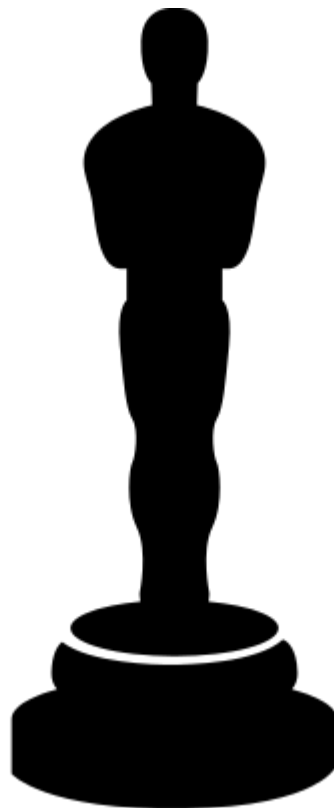
Combines all primary keys and designates a winner

```
[MariaDB [oscars]> describe oscar_junction;
```

| Field | Type | Null | Key | Default | Extra |
|-------------|---------------------|------|-----|---------|----------------|
| oj_id | int(11) | NO | PRI | NULL | auto_increment |
| award_id | int(11) | YES | | NULL | |
| entity_id | int(11) | YES | | NULL | |
| movie_id | int(11) | YES | | NULL | |
| win | tinyint(3) unsigned | YES | | NULL | |
| category_id | int(10) unsigned | YES | | NULL | |

Overview

- 13 years of nominations (1927-1940)
- 39 award categories
- 528 movies nominated for awards
- 686 entities nominated for awards
- 1,410 rows of data



Functionality

Our database is searchable by award category and year. When searching, all nominees for Oscars are listed, with the winner being designated by a “1” in the win column. If users only select an award category or a year, all nominees for that category or year will be listed. Alternatively, selecting both a category and a year will narrow down the results by the selected choice. For example, here are the results for Art Direction nominees in 1929:

Fun Fact

Award categories have changed over the years. Best Picture, for example, was not awarded until 1962. Within the years of our dataset, the “best picture” award was called either Outstanding Picture or Outstanding Production.

Results

| Title | Category | Year | Name | Win |
|----------------------------|---------------|------|-------------------------|-----|
| The Bridge of San Luis Rey | Art Direction | 1929 | Cedric Gibbons | 1 |
| Dynamite | Art Direction | 1929 | Mitchell Leisen | 0 |
| Alibi | Art Direction | 1929 | William Cameron Menzies | 0 |
| The Love Parade | Art Direction | 1929 | Hans Dreier | 0 |
| Sally | Art Direction | 1929 | Jack Okey | 0 |
| Bulldog Drummond | Art Direction | 1929 | William Cameron Menzies | 0 |