

## 1. Find the title of each film

Title
Toy Story
A Bug's Life
Toy Story 2
Monsters, Inc.
Finding Nemo
The Incredibles
Cars
Ratatouille
WALL-E
Up

```
SELECT title FROM movies;
```

Toy Story 3
Cars 2
Brave
Monsters University

## 2. Find the director of each film

	Table: Movies
	Director
	John Lasseter
	John Lasseter
	John Lasseter
	Pete Docter
	Andrew Stanton
	Brad Bird
	John Lasseter
	Brad Bird
	Andrew Stanton
	Pete Docter
	<pre>SELECT director FROM movies;</pre>

Lee Unkrich
John Lasseter
Brenda Chapman
Dan Scanlon

### 3.Find the title and director of each film

Table: Movies	
Title	Director
Toy Story	John Lasseter
A Bug's Life	John Lasseter
Toy Story 2	John Lasseter
Monsters, Inc.	Pete Docter
Finding Nemo	Andrew Stanton
The Incredibles	Brad Bird
Cars	John Lasseter
Ratatouille	Brad Bird
WALL-E	Andrew Stanton
Up	Pete Docter
SELECT Title, director FROM movies;	

Toy Story 3	Lee Unkrich
Cars 2	John Lasseter
Brave	Brenda Chapman
Monsters University	Dan Scanlon

#### 4. Find the title and year of each film

Table: Movies

Title	Year
Toy Story	1995
A Bug's Life	1998
Toy Story 2	1999
Monsters, Inc.	2001
Finding Nemo	2003
The Incredibles	2004
Cars	2006
Ratatouille	2007
WALL-E	2008
Up	2009

```
SELECT Title, year FROM movies;
```

Toy Story 3 2010

Cars 2 2011

Brave 2012

Monsters University 2013

```
SELECT Title, year FROM movies;
```

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#### 5. Find all the information about each film.

Table: Movies

Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
6	The Incredibles	Brad Bird	2004	116
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
10	Up	Pete Docter	2009	101

```
SELECT * FROM movies;
```

11	Toy Story 3	Lee Unkrich	2010	103
12	Cars 2	John Lasseter	2011	120
13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110

`SELECT * FROM movies;`

## 6. Find the movie with a row id of 6

Table: Movies

Id	Title	Director	Year	Length_minutes
6	The Incredibles	Brad Bird	2004	116

`SELECT *  
FROM movies  
WHERE id = 6;`

7. Find the movies released in the years between 2000 and 2010

Table: Movies

Id	Title	Director	Year	Length_minutes
4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
6	The Incredibles	Brad Bird	2004	116
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
9	WALL-E	Andrew Stanton	2008	104
10	Up	Pete Docter	2009	101
11	Toy Story 3	Lee Unkrich	2010	103

```
SELECT *  
FROM movies  
WHERE year BETWEEN 2000 AND 2010;
```

8. Find the movies not released in the years between 2000 and 2010

Table: Movies

Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
12	Cars 2	John Lasseter	2011	120
13	Brave	Brenda Chapman	2012	102
14	Monsters University	Dan Scanlon	2013	110

```
SELECT *  
FROM movies  
WHERE year NOT BETWEEN 2000 AND 2010;
```

### 9. Find the first 5 Pixar movies and their release year

Using the right constraints, find the information we need from the **Movies** table for each

Table: Movies

Title	Year
Toy Story	1995
A Bug's Life	1998
Toy Story 2	1999
Monsters, Inc.	2001
Finding Nemo	2003

```
SELECT title, year
FROM movies
ORDER BY year ASC
LIMIT 5;
```

## 10. Find all the Toy Story movies

Table: Movies

Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
3	Toy Story 2	John Lasseter	1999	93
11	Toy Story 3	Lee Unkrich	2010	103

```
SELECT *  
FROM movies  
WHERE title LIKE '%Toy Story%';
```

### 11. Find all the movies directed by John Lasseter

Table: Movies

Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bug's Life	John Lasseter	1998	95
3	Toy Story 2	John Lasseter	1999	93
7	Cars	John Lasseter	2006	117
12	Cars 2	John Lasseter	2011	120

```
SELECT *  
FROM movies  
WHERE director = 'John Lasseter';  
|
```



12. Find all the movies (and director) not directed by John Lasseter

Table: Movies

Title	Director
Monsters, Inc.	Pete Docter
Finding Nemo	Andrew Stanton
The Incredibles	Brad Bird
Ratatouille	Brad Bird
WALL-E	Andrew Stanton
Up	Pete Docter
Toy Story 3	Lee Unkrich
Brave	Brenda Chapman
Monsters University	Dan Scanlon
WALL-G	Brenda Chapman

```
SELECT title, director
FROM movies
WHERE director != 'John Lasseter';
|
```

13. Find all the WALL-\* movies.

Table: Movies

Id	Title	Director	Year	Length_minutes
9	WALL-E	Andrew Stanton	2008	104
87	WALL-G	Brenda Chapman	2042	97

```
SELECT *  
FROM movies  
WHERE title LIKE 'WALL-%';
```

14. List all directors of Pixar movies (alphabetically), without duplicates

Table: Movies

Director
Andrew Stanton
Brad Bird
Brenda Chapman
Dan Scanlon
John Lasseter
Lee Unkrich
Pete Docter

```
SELECT DISTINCT director FROM movies  
ORDER BY director ASC;
```

15. List the last four Pixar movies released (ordered from most recent to least)

Table: Movies

Title	Year
Monsters University	2013
Brave	2012
Cars 2	2011
Toy Story 3	2010

```
SELECT title, year FROM movies
ORDER BY year DESC
LIMIT 4;
```

16. List the first five Pixar movies sorted alphabetically

Table: Movies

Title
A Bug's Life
Brave
Cars
Cars 2
Finding Nemo

```
SELECT title FROM movies
ORDER BY title ASC
LIMIT 5;
```

17. List the next five Pixar movies sorted alphabetically

Table: Movies

Title
Monsters University
Monsters, Inc.
Ratatouille
The Incredibles
Toy Story

```
SELECT title FROM movies
ORDER BY title ASC
LIMIT 5 OFFSET 5;
```

### 18. List all the Canadian cities and their populations

Table: North\_american\_cities

City	Population
Toronto	2795060
Montreal	1717767

```
SELECT city, population FROM north_american_cities  
WHERE country = "Canada";|
```

**19. Order all the cities in the United States by their latitude from north to south**

Table: North\_american\_cities

City	Latitude
Chicago	41.878114
New York	40.712784
Philadelphia	39.952584
Los Angeles	34.052234
Phoenix	33.448377
Houston	29.760427

```
SELECT city, latitude FROM north_american_cities
WHERE country = "United States"
ORDER BY latitude DESC;
```



20. List all the cities west of Chicago, ordered from west to east

Table: North\_american\_cities

City	Longitude
Los Angeles	-118.243685
Phoenix	-112.074037
Guadalajara	-103.349609
Mexico City	-99.133208
Ecatepec de Morelos	-99.050674
Houston	-95.369803

```
SELECT city, longitude FROM north_american_cities
WHERE longitude < -87.629798
ORDER BY longitude ASC;
```

**21. List the two largest cities in Mexico (by population)**

Table: North\_american\_cities

City	Population
Mexico City	8555500
Ecatepec de Morelos	1742000

```
SELECT city, population FROM north_american_cities
WHERE country LIKE "Mexico"
ORDER BY population DESC
LIMIT 2;
```

**22. List the third and fourth largest cities (by population) in the United States and their population**

Table: North\_american\_cities

City	Population
Chicago	2718782
Houston	2195914

```
SELECT city, population FROM north_american_cities
WHERE country LIKE "United States"
ORDER BY population DESC
LIMIT 2 OFFSET 2;
```

### 23. Find the domestic and international sales for each movie

#### Query Results

Title	Domestic_sales	International_sales
Finding Nemo	380843261	555900000
Monsters University	268492764	475066843
Ratatouille	206445654	417277164
Cars 2	191452396	368400000
Toy Story 2	245852179	239163000
The Incredibles	261441092	370001000
WALL-E	223808164	297503696
Toy Story 3	415004880	648167031
Toy Story	191796233	170162503
Cars	244082982	217900167

```
SELECT title, domestic_sales, international_sales
FROM movies
JOIN boxoffice
ON movies.id = boxoffice.movie_id;
```

24. Show the sales numbers for each movie that did better internationally rather than domestically

Query Results

Title	Domestic_sales	International_sales
Finding Nemo	380843261	555900000
Monsters University	268492764	475066843
Ratatouille	206445654	417277164
Cars 2	191452396	368400000
The Incredibles	261441092	370001000
WALL-E	223808164	297503696
Toy Story 3	415004880	648167031
Up	293004164	438338580
A Bug's Life	162798565	200600000
Brave	237283207	301700000

```
SELECT title, domestic_sales, international_sales
FROM movies
JOIN boxoffice
ON movies.id = boxoffice.movie_id|
WHERE international_sales > domestic_sales;
```

25. List all the movies by their ratings in descending order

Query Results

Title	Rating
WALL-E	8.5
Toy Story 3	8.4
Toy Story	8.3
Up	8.3
Finding Nemo	8.2
Monsters, Inc.	8.1
Ratatouille	8
The Incredibles	8
Toy Story 2	7.9
Monsters University	7.4

```
SELECT title, rating
FROM movies
JOIN boxoffice
ON movies.id = boxoffice.movie_id
ORDER BY rating DESC;
```

26. Find the list of all buildings that have employees

Query Results

Building
1e
2w

```
SELECT DISTINCT building FROM employees;
```

27. Find the list of all buildings and their capacity

Query Results

Building_name	Capacity
1e	24
1w	32
2e	16
2w	20

```
SELECT * FROM buildings;
```



28. List all buildings and the distinct employee roles in each building (including empty buildings)

Query Results

Building_name	Role
1e	Engineer
1e	Manager
1w	
2e	
2w	Artist
2w	Manager

```
SELECT DISTINCT building_name, role
FROM buildings
LEFT JOIN employees
ON building_name = building;
```

29. Find the name and role of all employees who have not been assigned to a building

Query Results

Name	Role
Yancy I.	Engineer
Oliver P.	Artist

```
SELECT name, role FROM employees
WHERE building IS NULL;
```

30. Find the names of the buildings that hold no employees

Query Results

Building_name
---------------

1w
----

2e
----

```
SELECT DISTINCT building_name
FROM buildings
  LEFT JOIN employees
    ON building_name = building
WHERE role IS NULL;
```