SQL Lesson 1: SELECT queries 101

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

1. Find the `title` of each film
   —> SELECT Title FROM movies;
2. Find the `director` of each film
   —> SELECT director FROM movies;
3. Find the `title` and `director` of each film
   —> SELECT title,director FROM movies;
4. Find the `title` and `year` of each film
   —> SELECT title,year FROM movies;
5. Find `all` the information about each film
   —> SELECT * FROM movies;

SQL Lesson 2: Queries with constraints (Pt. 1)

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
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

1. Find the movie with a row `id` of 6

   —> SELECT * FROM movies WHERE(id=6);

2. Find the movies released in the `years` between 2000 and 2010

   —> SELECT * FROM movies WHERE Year BETWEEN 2000 AND 2010

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

   —> SELECT * FROM movies WHERE Year NOT BETWEEN 2000 AND 2010

4. Find the first 5 Pixar movies and their release `year`

   ```
   SELECT * FROM movies WHERE year LIMIT 5;
   ```

SQL Lesson 3: Queries with constraints (Pt. 2)

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
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

1. **Find all the Toy Story movies**

   —> SELECT * FROM movies WHERE Title Like "Toy Story%";

2. **Find all the movies directed by John Lasseter**

   —> SELECT * FROM movies WHERE Director="John Lasseter";

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

   —> SELECT * FROM movies WHERE NOT Director="John Lasseter";

4. **Find all the WALL-* movies**

   —> SELECT * FROM movies WHERE Title Like "WALL-%";

SQL Lesson 4: Filtering and sorting Query results

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
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10	Up	Pete Docter	2009	101
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

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

   —> SELECT DISTINCT Director FROM movies ORDER BY director;

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

   —> SELECT * FROM movies ORDER BY year DESC LIMIT 4;

3. **List the first five Pixar movies sorted alphabetically**

   SELECT * FROM movies ORDER BY Title LIMIT 5;

4. **List the next five Pixar movies sorted alphabetically**

   SELECT * FROM movies ORDER BY Title LIMIT 5 OFFSET 5;