

Basic SQL Functions of Create Table, Insert Into, Select From, Where, Order By and Limit are used in this document:

CREATE TABLE Function to create a Table called "Movies" with ID, Title, Director, Year and Length in minutes of the movie

Next, INSERT INTO Function allows for rows to be added into the dataset:

Id	Title	Director	Year	Length_minutes
1	Toy Story	John Lasseter	1995	81
2	A Bugs 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	Peter 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

Next, selecting the movie with Row number “6” is performed using the following function:

```
SELECT *FROM Movies
WHERE Id = 6;
```

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

Next function is to investigate the movies released from the year 2000 – 2010.
Using the below function:

```
SELECT *FROM Movies
WHERE Year BETWEEN 2000 AND 2010;
```

The output is shown below:

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	Peter Docter	2009	101
11	Toy Story 3	Lee Unkrich	2010	103

Now, the reverse is investigated, for movies not released between 2000 and 2010:

```
SELECT Title, Year FROM Movies
WHERE Year < 2000 OR Year > 2010;
```

Title	Year
Toy Story	1995
A Bugs Life	1998
Toy Story 2	1999
Cars 2	2011
Brave	2012
Monsters University	2013

Now, the movies directed by John Lasseter, and movies NOT directed by John Lasseter are shown in the following code and output below:

```
SELECT Title, Director FROM Movies
WHERE Director = 'John Lasseter';
```

Title	Director
Toy Story	John Lasseter
A Bugs Life	John Lasseter
Toy Story 2	John Lasseter
Cars	John Lasseter
Cars 2	John Lasseter

```
SELECT Title, Director FROM Movies
WHERE Director NOT LIKE 'John Lasseter';
```

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

Next, listing the names of directors in alphabetical order using the following code:

```
SELECT DISTINCT Director FROM Movies
ORDER BY Director ASC;
```

The output is shown below:

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

The following code is to list the last 4 movies released from most recent to last recent:

```
SELECT Title, Year FROM Movies  
ORDER BY Year DESC;
```

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

Finally, listing the first 5 movies in alphabetical order:

```
SELECT Title, Director FROM Movies  
ORDER BY Title ASC;
```

Title	Director
A Bugs Life	John Lasseter
Brave	Brenda Chapman
Cars	John Lasseter
Cars 2	John Lasseter
Finding Nemo	Andrew Stanton