EXERCISE : 1

Ex : 1

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;
```

RESET

Exercise 1 — Tasks

1. Find the **title** of each film ✓
2. Find the **director** of each film ✓
3. Find the **title** and **director** of each film ✓
4. Find the **title** and **year** of each film ✓
5. Find **all** the information about each film ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 2

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

```
SELECT * FROM movies
WHERE ID <6
```

RESET

Exercise 2 — Tasks

1. Find the movie with a row **id** of 6 ✓
2. Find the movies released in the **year** s between 2000 and 2010 ✓
3. Find the movies **not** released in the **year** s between 2000 and 2010 ✓
4. Find the first 5 Pixar movies and their release **year** ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 3

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-_"
```

RESET

Exercise 3 — Tasks

1. Find all the Toy Story movies ✓

2. Find all the movies directed by John Lasseter ✓

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

4. Find all the WALL-* movies ✓

Stuck? Read this task's Solution.
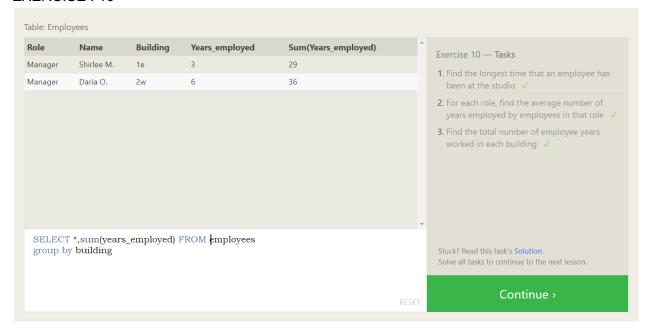Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 4

Table: Movies

Id	Title	Director	Year	Length_minutes
8	Monsters University	Dan Scanlon	2013	110
11	Monsters, Inc.	Pete Docter	2001	92
9	Ratatouille	Brad Bird	2007	115
12	The Incredibles	Brad Bird	2004	116
7	Toy Story	John Lasseter	1995	81

```
SELECT * FROM movies
order by title asc

limit 5 offset 5
```

RESET

Exercise 4 — Tasks

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

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

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

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

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 5

Table: North_american_cities

City	Country	Population	Latitude	Longitude
Chicago	United States	2718782	41.878114	-87.629798
Houston	United States	2195914	29.760427	-95.369803

Review 1 — Tasks

1. List all the Canadian cities and their populations ✓
2. Order all the cities in the United States by their latitude from north to south ✓
3. List all the cities west of Chicago, ordered from west to east ✓
4. List the two largest cities in Mexico (by population) ✓
5. List the third and fourth largest cities (by population) in the United States and their population ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

```
SELECT * FROM north_american_cities
 where country = "United States"
 order by Population desc
 limit 2 offset 2
```

RESET

Continue ›

EXERCISE : 6

Query Results

Id	Title	Director	Year	Length_minutes	Movie_id	Rating	Domestic_sales	International_sa
9	WALL-E	Andrew Stanton	2008	104	9	8.5	223808164	297503696
11	Toy Story 3	Lee Unkrich	2010	103	11	8.4	415004880	648167031
1	Toy Story	John Lasseter	1995	81	1	8.3	191796233	170162503
10	Up	Pete Docter	2009	101	10	8.3	293004164	438338580
5	Finding Nemo	Andrew Stanton	2003	107	5	8.2	380843261	555900000
4	Monsters, Inc.	Pete Docter	2001	92	4	8.1	289916256	272900000

Exercise 6 — Tasks

1. Find the domestic and international sales for each movie ✓
2. Show the sales numbers for each movie that did better internationally rather than domestically ✓
3. List all the movies by their ratings in descending order ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

```
SELECT * FROM movies
inner join boxoffice
on id = movie_id
order by rating desc
```

RESET

Continue ›

EXERCISE : 7

Query Results

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

```sql
SELECT distinct building_name,role FROM Buildings
left join employees
on Building_name = Building;
```

RESET

Continue ›

EXERCISE : 8

Query Results

Building_name	Capacity	Role	Name	Building	Years_employed
1w	32				
2e	16				

```sql
SELECT * FROM Buildings
left join Employees
on Building_name = Building
where role is null
```

RESET

Continue ›

EXERCISE : 9

Id	Title	Director	Year	Length_minutes
2	A Bug's Life	John Lasseter	1998	95
6	The Incredibles	Brad Bird	2004	116
7	Cars	John Lasseter	2006	117
9	WALL-E	Andrew Stanton	2008	104
11	Toy Story 3	Lee Unkrich	2010	103
13	Brave	Brenda Chapman	2012	102

```
SELECt * from movies
where year % 2=0
```

RESET

Exercise 9 — Tasks

1. List all movies and their combined sales in **millions** of dollars ✓

2. List all movies and their ratings **in percent** ✓

3. List all movies that were released on even number years ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 10

Table: Employees

Role	Name	Building	Years_employed	Sum(Years_employed)
Manager	Shirlee M.	1e	3	29
Manager	Daria O.	2w	6	36

```
SELECT *,sum(years_employed) FROM employees
group by building
```

RESET

Exercise 10 — Tasks

1. Find the longest time that an employee has been at the studio ✓

2. For each role, find the average number of years employed by employees in that role ✓

3. Find the total number of employee years worked in each building ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 11

Table: Employees

Role	Sum(Years_employed)
Engineer	17

```sql
SELECT role ,sum(years_employed) FROM employees
where role = "Engineer"
```

RESET

Exercise 11 — Tasks

1. Find the number of Artists in the studio (without a **HAVING** clause) ✓
2. Find the number of Employees of each role in the studio ✓
3. Find the total number of years employed by all Engineers ✓

Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 12

Query Results

Id	Title	Director	Year	Length_minutes	Movie_id	Rating	Domestic_sales	International_sa
9	WALL-E	Andrew Stanton	2008	104	9	8.5	223808164	297503696
6	The Incredibles	Brad Bird	2004	116	6	8	261441092	370001000
13	Brave	Brenda Chapman	2012	102	13	7.2	237283207	301700000
14	Monsters University	Dan Scanlon	2013	110	14	7.4	268492764	475066843
2	A Bug's Life	John Lasseter	1998	95	2	7.2	162798565	200600000
11	Toy Story 3	Lee Unkrich	2010	103	11	8.4	415004880	648167031

```sql
SELECT *,sum(domestic_sales+international_sales) from
    movies
inner join Boxoffice
on Id=Movie_id
group by director
```

RESET

Exercise 12 — Tasks

1. Find the number of movies each director has directed ✓
2. Find the total domestic and international sales that can be attributed to each director ✓

Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 13

Query Results

Movie_id	Rating	Domestic_sales	International_sales
3	7.9	245852179	239163000
1	8.3	191796233	170162503
2	7.2	162798565	200600000
4	8.7	34000000	270000000

RUN QUERY   RESET

Exercise 13 — Tasks

1. Add the studio's new production, **Toy Story 4** to the list of movies (you can use any director) ✓

2. Toy Story 4 has been released to critical acclaim! It had a rating of **8.7**, and made **340 million domestically** and **270 million internationally**. Add the record to the **BoxOffice** table. ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 14

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

RUN QUERY   RESET

Exercise 14 — Tasks

1. The director for A Bug's Life is incorrect, it was actually directed by **John Lasseter** ✓

2. The year that Toy Story 2 was released is incorrect, it was actually released in **1999** ✓

3. Both the title and director for Toy Story 8 is incorrect! The title should be "Toy Story 3" and it was directed by **Lee Unkrich** ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 15

Table: Movies

Id	Title	Director	Year	Length_minutes
7	Cars	John Lasseter	2006	117
8	Ratatouille	Brad Bird	2007	115
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

Exercise 15 — Tasks

1. This database is getting too big, lets remove all movies that were released **before** 2005. ✓

2. Andrew Stanton has also left the studio, so please remove all movies directed by him. ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

RUN QUERY   RESET

Continue ›

EXERCISE : 16

Table: Database

Name	Version	Download_count
SQLite	3.9	92000000
MySQL	5.5	512000000
Postgres	9.4	384000000

Exercise 16 — Tasks

1. Create a new table named **Database** with the following columns:
   – **Name** A string (text) describing the name of the database
   – **Version** A number (floating point) of the latest version of this database
   – **Download_count** An integer count of the number of times this database was downloaded

   This table has no constraints. ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

RUN QUERY   RESET

Continue ›

EXERCISE : 17

4	Monsters, Inc.	Pete Docter	2001	92	english
5	Finding Nemo	Andrew Stanton	2003	107	english
6	The Incredibles	Brad Bird	2004	116	english
7	Cars	John Lasseter	2006	117	english
8	Ratatouille	Brad Bird	2007	115	english
9	WALL-E	Andrew Stanton	2008	104	english
10	Up	Pete Docter	2009	101	english
11	Toy Story 3	Lee Unkrich	2010	103	english
12	Cars 2	John Lasseter	2011	120	english
13	Brave	Brenda Chapman	2012	102	english
14	Monsters University	Dan Scanlon	2013	110	english

|

RUN QUERY   RESET

Exercise 17 — Tasks

1. Add a column named **Aspect_ratio** with a **FLOAT** data type to store the aspect-ratio each movie was released in. ✓

2. Add another column named **Language** with a **TEXT** data type to store the language that the movie was released in. Ensure that the default for this language is **English**. ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : 18

Query Results

Id	Title	Director	Year	Length_minutes

|

RUN QUERY   RESET

Exercise 18 — Tasks

1. We've sadly reached the end of our lessons, lets clean up by removing the **Movies** table ✓

2. And drop the **BoxOffice** table as well ✓

Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Continue ›

EXERCISE : FINISHED

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