## **Exercise 1: Select queries**

	Title	Director	Year	Length_minutes	Exercise 1 — Tasks
	Toy Story	John Lasseter	1995	81	1. Find the title of each film ✓
	A Bug's Life	John Lasseter	1998	95	
	Toy Story 2	John Lasseter	1999	93	2. Find the director of each film ✓
	Monsters, Inc.	Pete Docter	2001	92	<ol> <li>Find the title and director of each film √</li> </ol>
	Finding Nemo	Andrew Stanton	2003	107	4. Find the title and year of each film
	The Incredibles	Brad Bird	2004	116	√
	Cars	John Lasseter	2006	117	5. Find all the information about each film
	Ratatouille	Brad Bird	2007	115	✓
	WALL-E	Andrew Stanton	2008	104	
	Up	Pete Docter	2009	101	
E	LECT * FROM movies;				Stuck? Read this task's <b>Solution</b> . Solve all tasks to continue to the next lesson.
				RESET	Continue >

# **Exercise 2: Queries with constraints (pt. 1)**

Table	: Movies					
ld	Title	Director	Year	Length_minutes		Exercise 2 — Tasks
1	Toy Story	John Lasseter	1995	81		1. Find the movie with a row id of 6 ✓
2	A Bug's Life	John Lasseter	1998	95		
3	Toy Story 2	John Lasseter	1999	93		2. Find the movies released in the <b>year</b> 's between 2000 and 2010 ✓
4	Monsters, Inc.	Pete Docter	2001	92		3. Find the movies not released in the year s
5	Finding Nemo	Andrew Stanton	2003	107		between 2000 and 2010 √
						<ol> <li>Find the first 5 Pixar movies and their release year √</li> </ol>
SE	LECT * FROM movies	where id<=5;				Stuck? Read this task's <b>Solution</b> . Solve all tasks to continue to the next lesson.
				F	RESET	Continue >

# **Exercise 3: Queries with constraints (pt. 2)**

d	Title	Director	Year	Length_minutes	
)	WALL-E	Andrew Stanton	2008	104	Exercise 3 — Tasks
37	WALL-G	Brenda Chapman	2042	97	1. Find all the Toy Story movies ✓
					2. Find all the movies directed by John Lassete $\checkmark$
					<ol> <li>Find all the movies (and director) not directed by John Lasseter √</li> </ol>
					<b>4.</b> Find all the WALL-* movies ✓
SEI	_ECT * FROM I	movies where title like	'WALL-%'	;	Stuck? Read this task's <b>Solution</b> . Solve all tasks to continue to the next lesson.

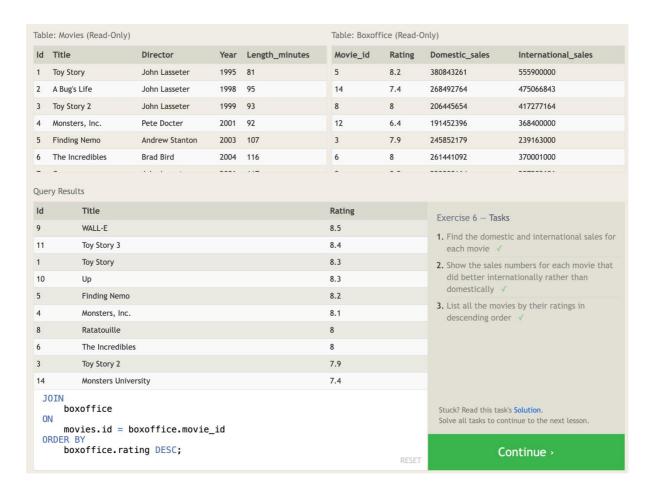
## **Exercise 4: Filtering and sorting Query results**

Table	: Movies					
ld	Title	Director	Year	Length_minutes		Exercise 4 — Tasks
12	Monsters University	Dan Scanlon	2013	110		List all directors of Pixar movies
11	Monsters, Inc.	Pete Docter	2001	92		(alphabetically), without duplicates ✓
6	Ratatouille	Brad Bird	2007	115		2. List the last four Pixar movies released
8	The Incredibles	Brad Bird	2004	116		(ordered from most recent to least) $\checkmark$
5	Toy Story	John Lasseter	1995	81		<ol> <li>List the first five Pixar movies sorted alphabetically √</li> </ol>
						<b>4.</b> List the next five Pixar movies sorted alphabetically ✓
SE	LECT * FROM movies orde		Stuck? Read this task's <b>Solution</b> . Solve all tasks to continue to the next lesson.			
				RE	ESET	Continue >

#### **Exercise 5: Simple Select Queries**

Table: North_am	erican_cities		
City	Country	Population	Review 1 — Tasks
Chicago	United States	2718782	List all the Canadian cities and their
Houston	United States	2195914	populations ✓
			2. Order all the cities in the United States by their latitude from north to south $\ensuremath{\checkmark}$
			3. List all the cities west of Chicago, ordered from west to east $\ensuremath{\checkmark}$
			<b>4.</b> List the two largest cities in Mexico (by population) ✓
			<b>5.</b> List the third and fourth largest cities (by population) in the United States and their population ✓
FROM north WHERE coun	y, country, population _american_cities try = 'United States' opulation desc limit 2 offse	t 2;	Stuck? Read this task's <b>Solution</b> . Solve all tasks to continue to the next lesson.
			Continue >

#### **Exercise 6: Multi Table queries with JOINS**



#### **Exercise 7: Outer JOINS:**

Table: Buildings (Read-Only)			Table: Emplo	oyees (Read-O	nly)	
Building_name	Capacity		Role	Name	Building	Years_employed
1e	24		Engineer	Becky A.	1e	4
1w	32		Engineer	Dan B.	1e	2
2e	16		Engineer	Sharon F.	1e	6
2w	20		Engineer	Dan M.	1e	4
			Engineer	Malcom S.	1e	1
			Artist	Tylar S.	2w	2
					-	•
Query Results						
Building_name		Role			Exercise 7 — Task	,
1e		Engineer				all buildings that have
1e		Manager			employees ✓	att buildings that have
1w					2. Find the list of a	all buildings and their
2e					capacity 🗸	
2w		Artist				and the distinct employee ilding (including empty
2w		Manager			buildings) ✓	italing (including empty
SELECT DISTINCT building_name, FROM buildings LEFT JOIN employees				Stuck? Read this task Solve all tasks to cor	r's Solution.	
ON building_name = building;						
				RESET	С	ontinue ,

### **Exercise 8: A short note on NULLs:**

Table: Buildings (Read-Only)		Table: Emplo	yees (Read-Or	nly)	
Building_name	Capacity	Role	Name	Building	Years_employed
1e	24	Engineer	Becky A.	1e	4
1w	32	Engineer	Dan B.	1e	2
2e	16	Engineer	Sharon F.	1e	6
2w	20	Engineer	Dan M.	1e	4
		Engineer	Malcom S.	1e	1
		Artist	Tylar S.	2w	2
				-	•
Query Results					
Building_name				Exercise 8 — Task	_
1w					
2e					and role of all employees whassigned to a building
				2. Find the names employees √	of the buildings that hold n
SELECT b.building_name FROM buildings b LEFT JOIN employees e ON b.building_name = e.b WHERE e.building IS NULL					ntinue to the next lesson.
			RESET	C	ontinue >