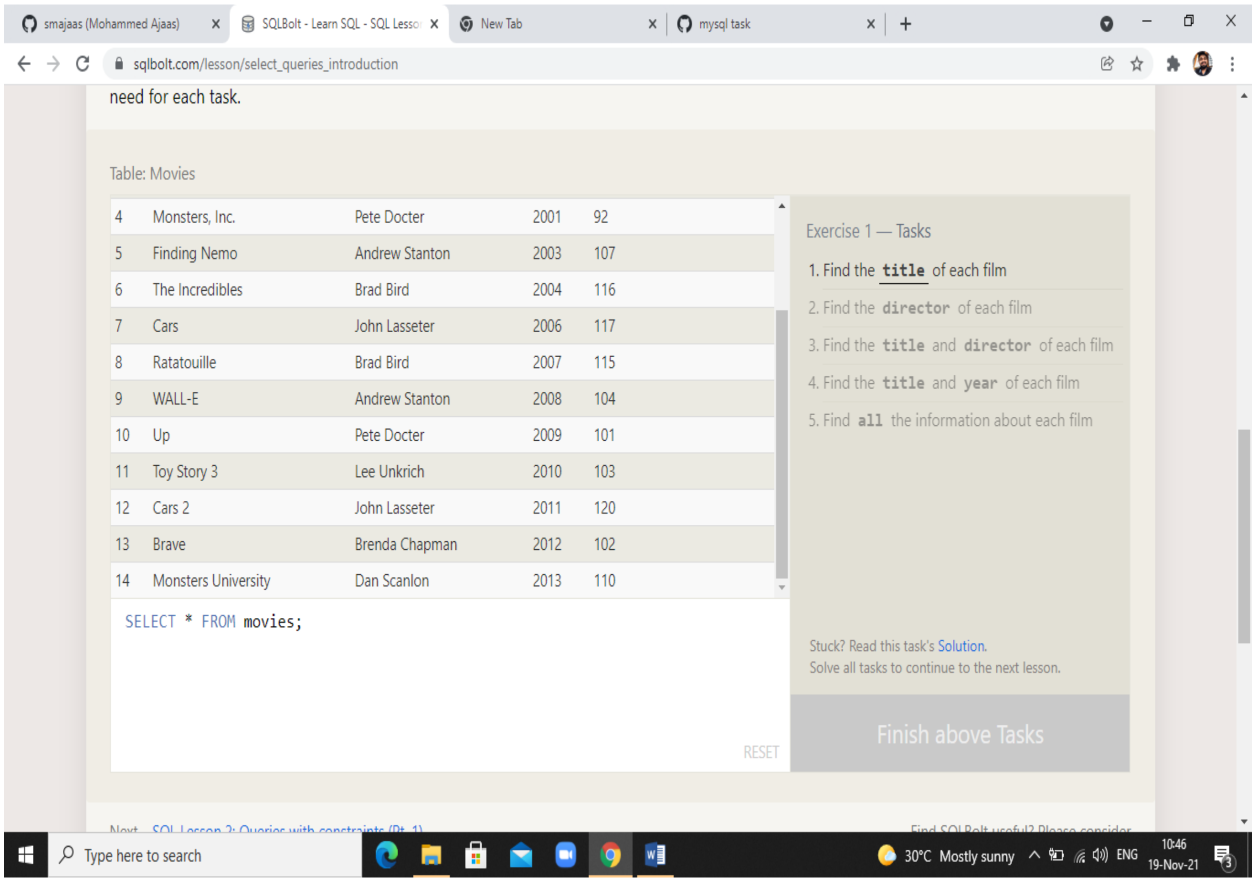
This Exercise from sqlbolt.com

SQL Lesson 1: SELECT queries 101



need for each task.

Table: Movies

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

```
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

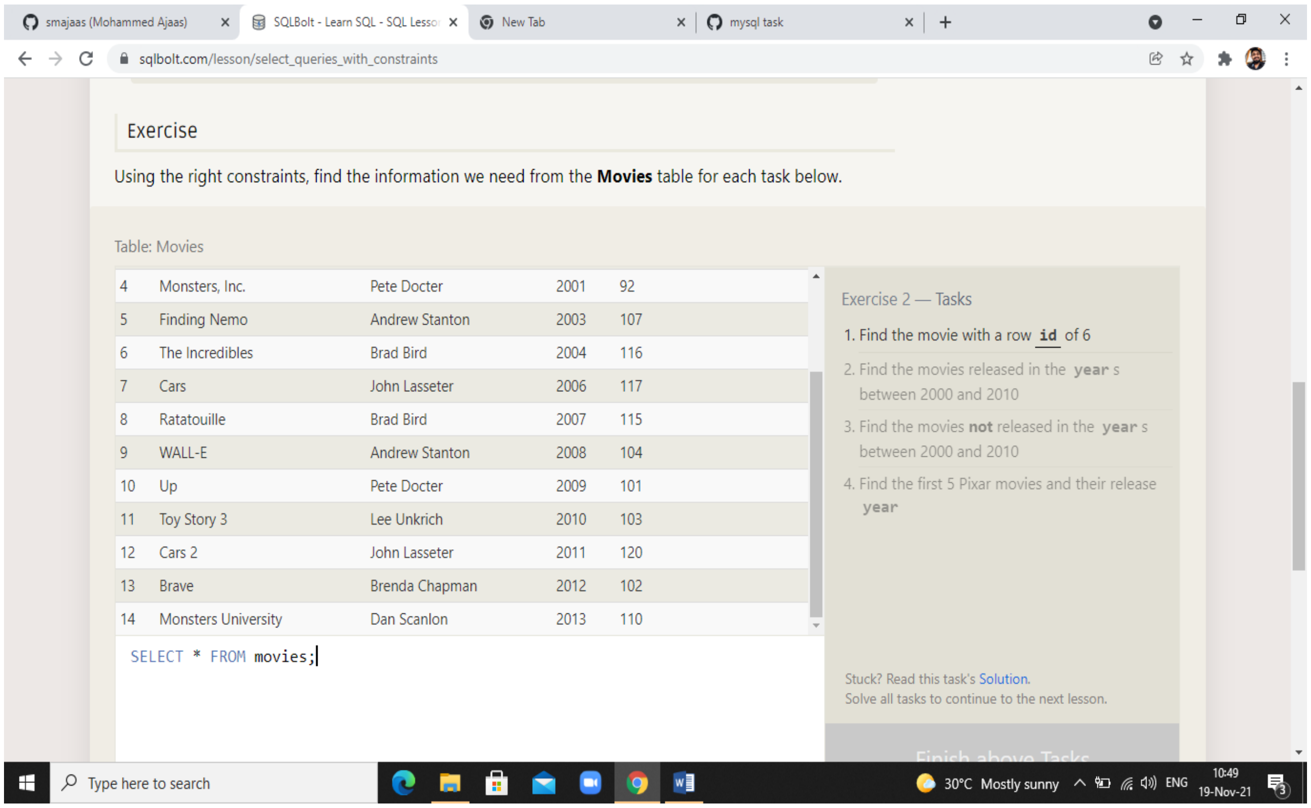
Stuck? Read this task's Solution.
Solve all tasks to continue to the next lesson.

Finish above Tasks

Answers :

1. SELECT title FROM movies;
2. SELECT director FROM movies;
3. SELECT title,director FROM movies;
4. SELECT title,year FROM movies;
5. SELECT * FROM movies;

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



Exercise

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

Table: Movies

4	Monsters, Inc.	Pete Docter	2001	92
5	Finding Nemo	Andrew Stanton	2003	107
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7	Cars	John Lasseter	2006	117
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```
SELECT * FROM movies;
```

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.

Finish above Tasks

Answers :

1. SELECT * FROM movies where id >= 6
2. SELECT * FROM movies where year between 2000 and 2010
3. SELECT * FROM movies where year Not between 2000 and 2010
4. SELECT * FROM movies WHERE id <=5;

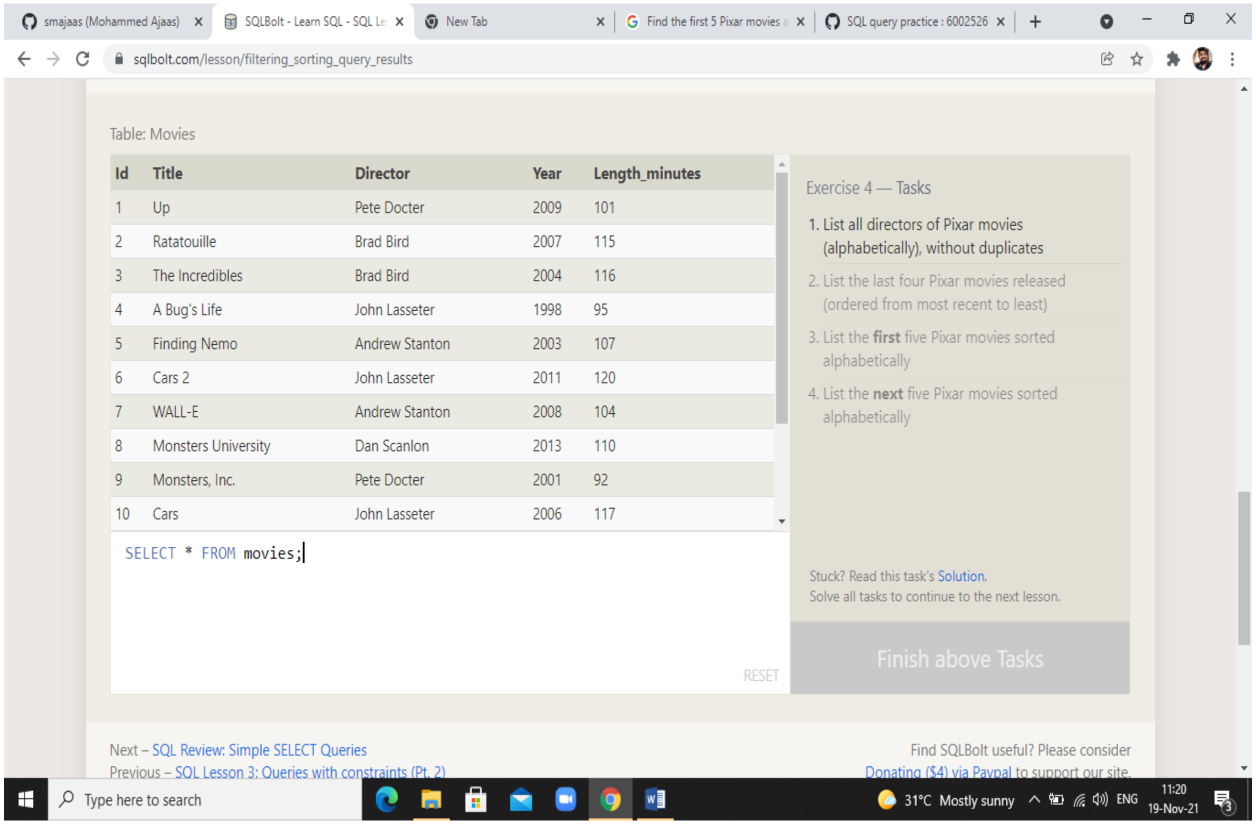
SQL Lesson 3: Queries with constraints (Pt. 2)

Answers :

1. SELECT title FROM movies where title Like "Toy Story%";

2. SELECT title FROM movies where director= "John Lasseter";
3. SELECT title FROM movies where director!= "John Lasseter";
4. SELECT title FROM movies where title like "WALL-%";

SQL Lesson 4: Filtering and sorting Query results


smajaas (Mohammed Ajaas)
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New Tab
Find the first 5 Pixar movies
SQL query practice : 6002526
sqlbolt.com/lesson/filtering_sorting_query_results
Type here to search
31°C Mostly sunny
ENG
11:20
19-Nov-21

Table: Movies

Id	Title	Director	Year	Length_minutes
1	Up	Pete Docter	2009	101
2	Ratatouille	Brad Bird	2007	115
3	The Incredibles	Brad Bird	2004	116
4	A Bug's Life	John Lasseter	1998	95
5	Finding Nemo	Andrew Stanton	2003	107
6	Cars 2	John Lasseter	2011	120
7	WALL-E	Andrew Stanton	2008	104
8	Monsters University	Dan Scanlon	2013	110
9	Monsters, Inc.	Pete Docter	2001	92
10	Cars	John Lasseter	2006	117

```
SELECT * FROM movies;
```

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.

Finish above Tasks

Next – SQL Review: Simple SELECT Queries
Previous – SQL Lesson 3: Queries with constraints (Pt. 2)

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Answers :

1. SELECT distinct director FROM movies order by director;
2. SELECT DISTINCT title FROM movies ORDER BY year DESC LIMIT 4;
3. SELECT title FROM movies ORDER BY title LIMIT 5;
4. SELECT title FROM movies ORDER BY title LIMIT 5 OFFSET 5;

Lesson:5 SQL Review: Simple SELECT Queries

Answers :

1. SELECT city, population FROM north_american_cities WHERE country = "Canada";
2. SELECT city FROM north_american_cities WHERE country = "United States" ORDER BY latitude DESC;
3. SELECT city FROM north_american_citiesWHERE longitude < -87.629798 BY longitude;
4. SELECT city FROM north_american_cities WHERE country = "Mexico" ORDER BY population DESC LIMIT 2;
5. SELECT city FROM north_american_cities WHERE country = "United States" ORDER BY population DESC LIMIT 2 OFFSET 2;

SQL Lesson 6: Multi-table queries with JOINs

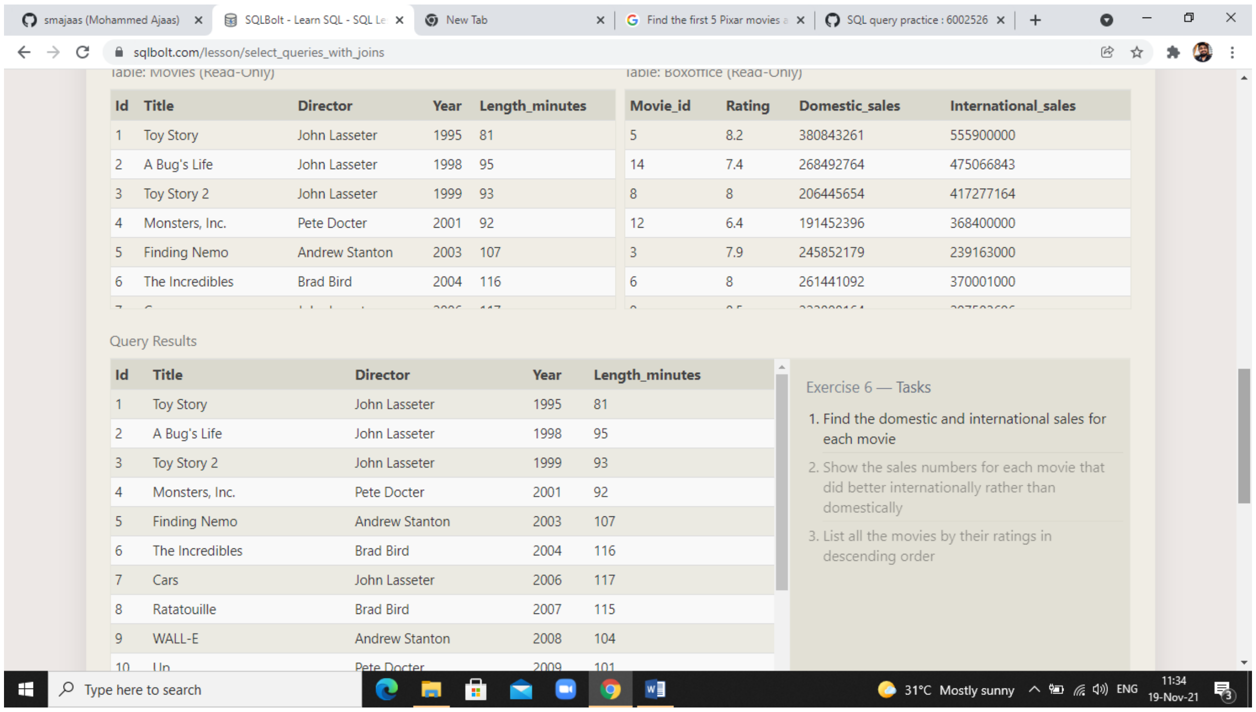

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Table: Movies (Read-Only)

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

Table: Boxoffice (Read-Only)

Movie_id	Rating	Domestic_sales	International_sales
5	8.2	380843261	555900000
14	7.4	268492764	475066843
8	8	206445654	417277164
12	6.4	191452396	368400000
3	7.9	245852179	239163000
6	8	261441092	370001000

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
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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

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

smajaas (Mohammed Ajaas)
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New Tab
Find the first 5 Pixar movies a
SQL query practice : 6002526
Type here to search
31°C Mostly sunny
ENG
11:34
19-Nov-21

Answers :

1. SELECT title, domestic_sales, international_sales FROM movies INNER JOIN boxoffice ON movies.id = boxoffice.movie_id;
2. SELECT title, domestic_sales, international_sales FROM movies INNER JOIN boxoffice ON movies.id = boxoffice.movie_id WHERE international_sales > domestic_sales;
3. SELECT title, rating FROM movies INNER JOIN boxoffice ON movies.id = boxoffice.movie_id ORDER BY rating DESC;

SQL Lesson 7: OUTER JOINs

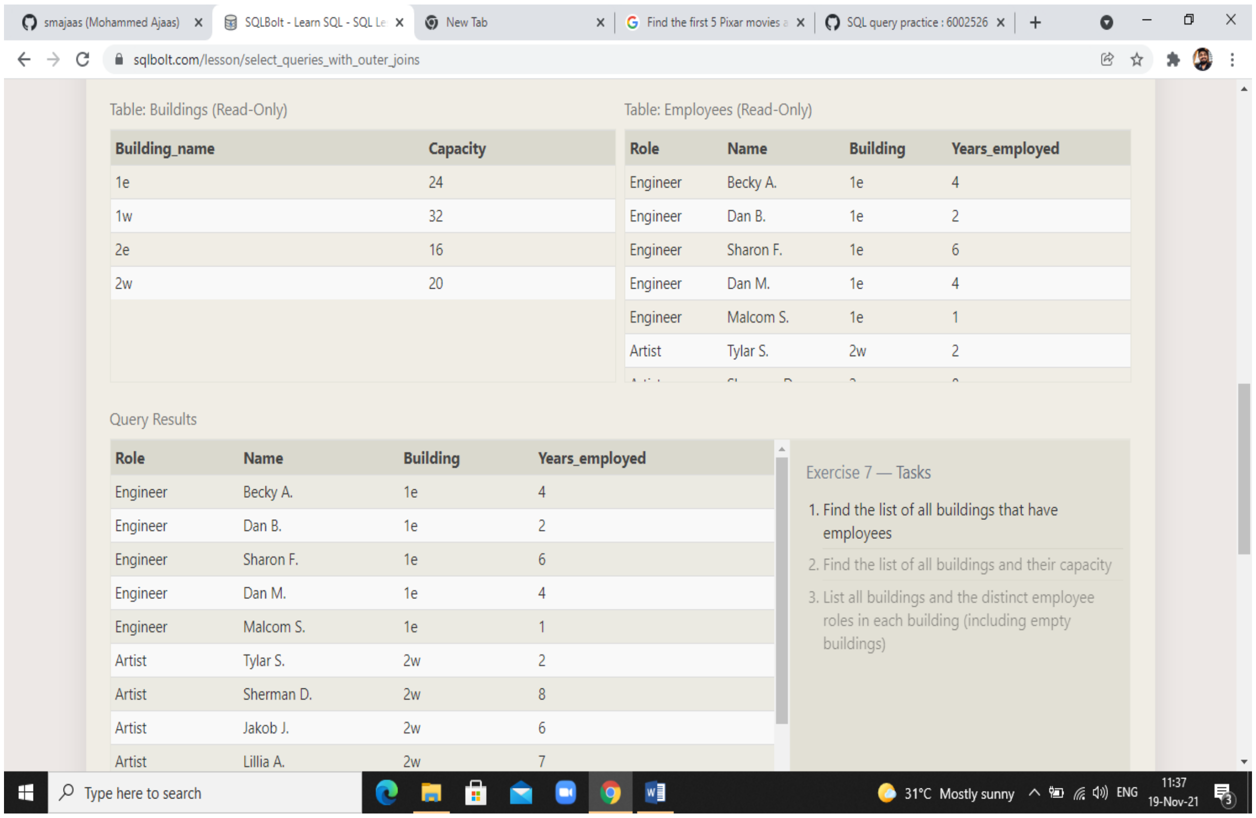
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Table: Buildings (Read-Only)

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

Table: Employees (Read-Only)

Role	Name	Building	Years_employed
Engineer	Becky A.	1e	4
Engineer	Dan B.	1e	2
Engineer	Sharon F.	1e	6
Engineer	Dan M.	1e	4
Engineer	Malcom S.	1e	1
Artist	Tylar S.	2w	2

Query Results

Role	Name	Building	Years_employed
Engineer	Becky A.	1e	4
Engineer	Dan B.	1e	2
Engineer	Sharon F.	1e	6
Engineer	Dan M.	1e	4
Engineer	Malcom S.	1e	1
Artist	Tylar S.	2w	2
Artist	Sherman D.	2w	8
Artist	Jakob J.	2w	6
Artist	Lillia A.	2w	7

Exercise 7 — Tasks

1. Find the list of all buildings that have employees
2. Find the list of all buildings and their capacity
3. List all buildings and the distinct employee roles in each building (including empty buildings)

Answers :

1. SELECT distinct building FROM employees;
2. SELECT * FROM buildings;
3. SELECT DISTINCT building_name, role FROM buildings LEFT JOIN employees ON building_name = employees.building;