**Table: Buildings**

**Building\_name Capacity**

**1e                                  24**

**1w                                 32**

**2e                                  16**

**2w                                  20**

**Table: Employees**

**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**

* **Write sql queries for the following:**

**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)**

* create database joining;
* use joining;
* -- Create the Buildings table
* CREATE TABLE Buildings (
* Building\_name VARCHAR(2) PRIMARY KEY,
* Capacity INT
* );
* -- Insert data into the Buildings table
* INSERT INTO Buildings (Building\_name, Capacity) VALUES
* ('1e', 24),
* ('1w', 32),
* ('2e', 16),
* ('2w', 20);
* -- Create the Employees table
* CREATE TABLE Employees (
* Role VARCHAR(50),
* Name VARCHAR(255),
* Building VARCHAR(2),
* Years\_employed INT
* );
* -- Insert data into the Employees table
* INSERT INTO Employees (Role, Name, Building, Years\_employed) VALUES
* ('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);
* SELECT \* from Buildings;
* SELECT \* from Employees;
* -- (1)
* SELECT DISTINCT A.Building\_Name AS Employees\_Building
* FROM Buildings AS A INNER JOIN Employees AS B
* ON A.Building\_Name = B.Building;
* -- OR
* SELECT DISTINCT Building FROM Employees;
* -- (2)
* SELECT \* from Buildings;
* -- OR
* SELECT DISTINCT A.Building\_Name, A.Capacity
* FROM Buildings AS A LEFT JOIN Employees AS B
* ON A.Building\_Name = B.Building;
* -- (3)
* SELECT DISTINCT A.Building\_Name, B.Role
* FROM Buildings AS A LEFT JOIN Employees AS B
* ON A.Building\_Name = B.Building;