--Task 1 'Show the Full Name of the Job Seeker, Job title that he/she Applied for, and the name of the company. For only who applied on the job '

select JS.FullName, J.Title, C.Name from Applications A, JobSeekers JS, Jobs J, Companies C where A.SeekerID = JS.SeekerID AND A.JobID = J.JobID AND J.CompanyID = C.CompanyID

	FullName	Title	Name
1	Sara Al Busaidi	Software Developer	TechWave
2	Hassan Al Lawati	Data Analyst	TechWave
3	Mona Al Zadjali	Science Teacher	EduBridge
4	Ahmed Al Hinai	Field Engineer	GreenEnergy

-- Task 2 'Show the title and the company name even if no one has applied '

select Jobs.Title, Companies.Name from Jobs, Companies, Applications where Jobs.JobID = Applications.JobID AND Jobs.CompanyID = Companies.CompanyID



-- Task 3 'Show seeker name, job title, and city where both live and job match'

Select JobSeekers.FullName, Jobs.Title, JobSeekers.City from JobSeekers JOIN Applications ON JobSeekers.SeekerID = Applications.SeekerID JOIN Jobs ON Applications.JobID = Jobs.JobID WHERE JobSeekers.City = Jobs.Location;

	FullName	Title	City
1	Sara Al Busaidi	Software Developer	Muscat
2	Hassan Al Lawati	Data Analyst	Muscat
3	Mona Al Zadjali	Science Teacher	Salalah

-- **Task 4** 'Show all job seekers and any jobs they've applied to (if any). -- Use LEFT JOIN to include seekers who never applied'

select JobSeekers.FullName, Jobs.Title, Applications.Status from JobSeekers LEFT JOIN Applications ON JobSeekers.SeekerID = Applications.SeekerID LEFT JOIN Jobs ON Applications.JobID = Jobs.JobID;

	FullName	Title	Status
1	Sara Al Busaidi	Software Developer	Pending
2	Ahmed Al Hinai	Field Engineer	Pending
3	Mona Al Zadjali	Science Teacher	Rejected
4	Hassan Al Lawati	Data Analyst	Shortlisted

-- **Task 5** 'Show each job and the names of applicants (if any). -- Show all jobs even if no one applied'

Select Jobs.Title, JobSeekers.FullName from Jobs LEFT JOIN Applications ON Jobs.JobID = Applications.JobID LEFT JOIN JobSeekers ON Applications.SeekerID = JobSeekers.SeekerID;

	Title	FullName
1	Software Developer	Sara Al Busaidi
2	Data Analyst	Hassan Al Lawati
3	Science Teacher	Mona Al Zadjali
4	Field Engineer	Ahmed Al Hinai

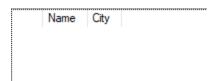
-- Task 6 'Show all jobs even if no one applied'

select Jobs.Title, JobSeekers.FullName from Jobs LEFT JOIN Applications ON Jobs.JobID = Applications.JobID LEFT JOIN JobSeekers ON Applications.SeekerID = JobSeekers.SeekerID;

	Title	FullName
1	Software Developer	Sara Al Busaidi
2	Data Analyst	Hassan Al Lawati
3	Science Teacher	Mona Al Zadjali
4	Field Engineer	Ahmed Al Hinai

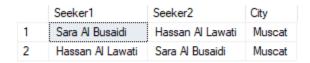
-- Task 7 'Show companies that have no jobs posted. -- Use LEFT JOIN from Companies to Jobs and filter jobs as NULL'

select Companies.Name, Companies.City from Companies LEFT JOIN Jobs ON Companies.CompanyID = Jobs.CompanyID where Jobs.JobID IS NULL;



-- Task 8 'Show pairs of job seekers who live in the same city but are not the same person.'

select A.FullName as Seeker1, B.FullName as Seeker2, A.City from JobSeekers A, JobSeekers B where A.City = B.City AND A.SeekerID <> B.SeekerID;



-- Task 9 Seekers who applied to high-salary jobs not in their city.

select JobSeekers.FullName, Jobs.Title,JobSeekers.City as SeekerCity,Jobs.Location as JobCity,Jobs.Salary from JobSeekers JOIN Applications on JobSeekers.SeekerID = Applications.SeekerID JOIN Jobs on Applications.JobID = Jobs.JobID where Jobs.Salary > 850 AND JobSeekers.City <> Jobs.Location;



-- Task 10 'Show all seekers and job cities they applied to, even if they don't match.'

select JobSeekers.FullName,JobSeekers.City as SeekerCity, Jobs.Location as JobCity from JobSeekers JOIN Applications on JobSeekers.SeekerID = Applications.SeekerID JOIN Jobs on Applications.JobID = Jobs.JobID;

	FullName	SeekerCity	JobCity
1	Sara Al Busaidi	Muscat	Muscat
2	Hassan Al Lawati	Muscat	Muscat
3	Mona Al Zadjali	Salalah	Salalah
4	Ahmed Al Hinai	Nizwa	Sohar

-- **Task 11** Show jobs that haven't received any applications.

select Jobs.Title from Jobs LEFT JOIN Applications on Jobs.JobID = Applications.JobID where Applications.AppID IS NULL;

Title		

-- Task 12 Seekers who applied to jobs in the same city they live in.

select JobSeekers.FullName, Jobs.Title, JobSeekers.City from JobSeekers JOIN Applications on JobSeekers.SeekerID = Applications.SeekerID JOIN Jobs on Applications.JobID = Jobs.JobID where JobSeekers.City = Jobs.Location;

	FullName	Title	City
1	Sara Al Busaidi	Software Developer	Muscat
2	Hassan Al Lawati	Data Analyst	Muscat
3	Mona Al Zadjali	Science Teacher	Salalah

-- Task 13 Pairs of seekers in same city who applied to different jobs.

select A.FullName as Seeker1, B.FullName as Seeker2, A.City from JobSeekers A JOIN Applications AppA on A.SeekerID = AppA.SeekerID JOIN Jobs J1 on AppA.JobID = J1.JobID JOIN JobSeekers B on A.City = B.City AND A.SeekerID <> B.SeekerID JOIN Applications AppB on B.SeekerID = AppB.SeekerID JOIN Jobs J2 on AppB.JobID = J2.JobID where J1.JobID <> J2.JobID;

	Seeker1	Seeker2	City
1	Sara Al Busaidi	Hassan Al Lawati	Muscat
2	Hassan Al Lawati	Sara Al Busaidi	Muscat

-- Task 14 Show applications where seeker is from a different city than the job.

select JobSeekers.FullName, Jobs.Title, JobSeekers.City as SeekerCity, Jobs.Location as JobCity from JobSeekers JOIN Applications on JobSeekers.SeekerID = Applications.SeekerID JOIN Jobs on Applications.JobID = Jobs.JobID where JobSeekers.City <> Jobs.Location;



-- **Task 15** Show cities where job seekers live but no company is based.

select DISTINCT JobSeekers.City from JobSeekers LEFT JOIN Companies on JobSeekers.City = Companies.City where

Companies.CompanyID IS NULL;

