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Saveetha Engineering College

Coding Challenges: CareerHub, The Job Board

Tasks:

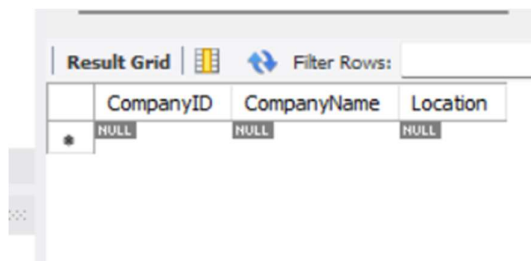
1. Provide a SQL script that initializes the database for the Job Board scenario “CareerHub”.

```
CREATE DATABASE CareerHub;
```

```
USE CareerHub;
```

2. Create tables for Companies, Jobs, Applicants and Applications.
3. Define appropriate primary keys, foreign keys, and constraints.

```
CREATE TABLE Companies (  
    CompanyID INT PRIMARY KEY AUTO_INCREMENT,  
    CompanyName VARCHAR(255) NOT NULL,  
    Location VARCHAR(255) NOT NULL  
);
```



The screenshot shows a database interface with a 'Result Grid' tab. It displays the structure of the 'Companies' table with three columns: 'CompanyID', 'CompanyName', and 'Location'. Each column has a 'NULL' value in the first row. There is a small icon in the first row, first column.

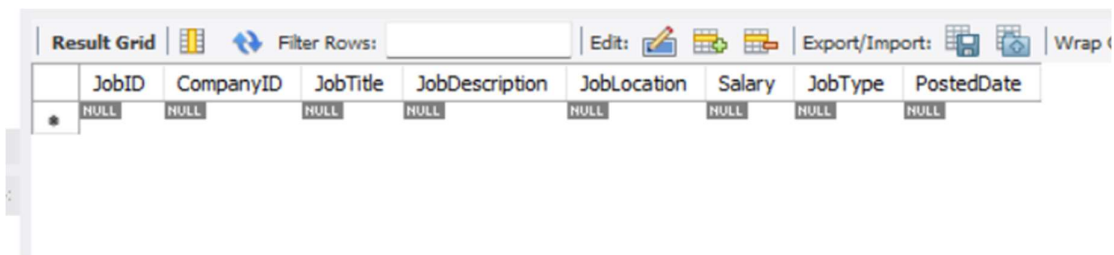
	CompanyID	CompanyName	Location
*	NULL	NULL	NULL

```
CREATE TABLE Jobs (  
    JobID INT PRIMARY KEY AUTO_INCREMENT,  
    CompanyID INT NOT NULL,
```

```

JobTitle VARCHAR(255) NOT NULL,
JobDescription TEXT NOT NULL,
JobLocation VARCHAR(255) NOT NULL,
Salary DECIMAL(10,2) NOT NULL,
JobType ENUM('Full-time', 'Part-time', 'Contract') NOT NULL,
PostedDate DATE NOT NULL,
FOREIGN KEY (CompanyID) REFERENCES Companies(CompanyID) ON DELETE
CASCADE
);

```

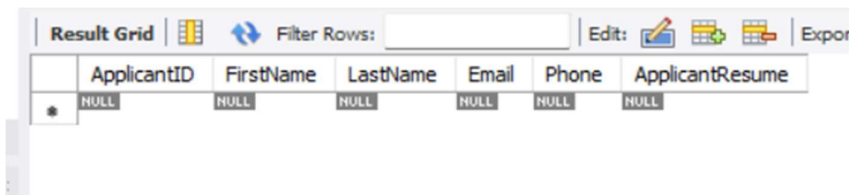


	JobID	CompanyID	JobTitle	JobDescription	JobLocation	Salary	JobType	PostedDate
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

```

CREATE TABLE Applicants (
  ApplicantID INT PRIMARY KEY AUTO_INCREMENT,
  FirstName VARCHAR(100) NOT NULL,
  LastName VARCHAR(100) NOT NULL,
  Email VARCHAR(255) UNIQUE NOT NULL,
  Phone VARCHAR(20) UNIQUE NOT NULL,
  ApplicantResume TEXT NOT NULL
);

```



	ApplicantID	FirstName	LastName	Email	Phone	ApplicantResume
*	NULL	NULL	NULL	NULL	NULL	NULL

```

CREATE TABLE Applications (
  ApplicationID INT PRIMARY KEY AUTO_INCREMENT,
  JobID INT NOT NULL,

```

ApplicantID INT NOT NULL,
 ApplicationDate DATE NOT NULL,
 CoverLetter TEXT NOT NULL,
 FOREIGN KEY (JobID) REFERENCES Jobs(JobID) ON DELETE CASCADE,
 FOREIGN KEY (ApplicantID) REFERENCES Applicants(ApplicantID) ON DELETE
 CASCADE
);

ApplicationID	JobID	ApplicantID	ApplicationDate	CoverLetter
NULL	NULL	NULL	NULL	NULL

INSERT INTO Companies (CompanyName, Location) VALUES
 ('Tata Consultancy Services', 'Mumbai, India'),
 ('Google', 'Mountain View, USA'),
 ('Infosys', 'Bangalore, India'),
 ('Amazon', 'Seattle, USA'),
 ('HCL Technologies', 'Noida, India'),
 ('Microsoft', 'Redmond, USA'),
 ('Accenture', 'Dublin, Ireland'),
 ('Capgemini', 'Paris, France'),
 ('Wipro', 'Hyderabad, India'),
 ('IBM', 'New York, USA');

CompanyID	CompanyName	Location
1	Tata Consultancy Services	Mumbai, India
2	Google	Mountain View, USA
3	Infosys	Bangalore, India
4	Amazon	Seattle, USA
5	HCL Technologies	Noida, India
6	Microsoft	Redmond, USA
7	Accenture	Dublin, Ireland
8	Capgemini	Paris, France
9	Wipro	Hyderabad, India
10	IBM	New York, USA
NULL	NULL	NULL

INSERT INTO Jobs (CompanyID, JobTitle, JobDescription, JobLocation, Salary, JobType, PostedDate) VALUES

(1, 'Software Engineer', 'Develop web applications', 'Mumbai, India', 1200000.00, 'Full-time', '2024-11-10'),

(2, 'Data Scientist', 'Analyze large datasets', 'Mountain View, USA', 150000.00, 'Full-time', '2024-12-05'),

(3, 'System Analyst', 'Optimize IT systems', 'Bangalore, India', 1000000.00, 'Full-time', '2024-12-20'),

(4, 'Cloud Architect', 'Design cloud solutions', 'Seattle, USA', 170000.00, 'Full-time', '2025-01-08'),

(5, 'Cybersecurity Specialist', 'Ensure system security', 'Noida, India', 1100000.00, 'Full-time', '2025-01-25'),

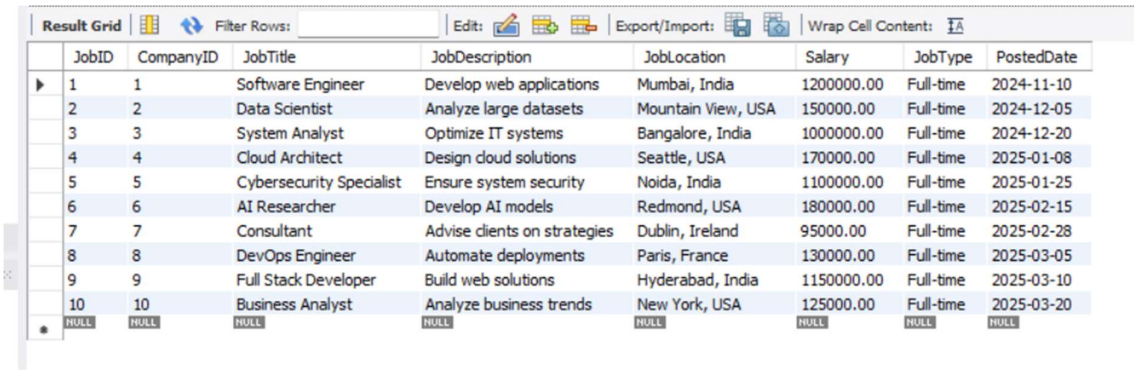
(6, 'AI Researcher', 'Develop AI models', 'Redmond, USA', 180000.00, 'Full-time', '2025-02-15'),

(7, 'Consultant', 'Advise clients on strategies', 'Dublin, Ireland', 95000.00, 'Full-time', '2025-02-28'),

(8, 'DevOps Engineer', 'Automate deployments', 'Paris, France', 130000.00, 'Full-time', '2025-03-05'),

(9, 'Full Stack Developer', 'Build web solutions', 'Hyderabad, India', 1150000.00, 'Full-time', '2025-03-10'),

(10, 'Business Analyst', 'Analyze business trends', 'New York, USA', 125000.00, 'Full-time', '2025-03-20');



JobID	CompanyID	JobTitle	JobDescription	JobLocation	Salary	JobType	PostedDate
1	1	Software Engineer	Develop web applications	Mumbai, India	1200000.00	Full-time	2024-11-10
2	2	Data Scientist	Analyze large datasets	Mountain View, USA	150000.00	Full-time	2024-12-05
3	3	System Analyst	Optimize IT systems	Bangalore, India	1000000.00	Full-time	2024-12-20
4	4	Cloud Architect	Design cloud solutions	Seattle, USA	170000.00	Full-time	2025-01-08
5	5	Cybersecurity Specialist	Ensure system security	Noida, India	1100000.00	Full-time	2025-01-25
6	6	AI Researcher	Develop AI models	Redmond, USA	180000.00	Full-time	2025-02-15
7	7	Consultant	Advise clients on strategies	Dublin, Ireland	95000.00	Full-time	2025-02-28
8	8	DevOps Engineer	Automate deployments	Paris, France	130000.00	Full-time	2025-03-05
9	9	Full Stack Developer	Build web solutions	Hyderabad, India	1150000.00	Full-time	2025-03-10
10	10	Business Analyst	Analyze business trends	New York, USA	125000.00	Full-time	2025-03-20
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

INSERT INTO Applicants (FirstName, LastName, Email, Phone, ApplicantResume) VALUES

('Ravi', 'Kumar', 'ravi.kumar@email.com', '+91 9876543210', 'Experienced software developer...'),

('John', 'Smith', 'john.smith@email.com', '+1 1234567890', 'Expert in machine learning...'),

('Ayesha', 'Fatima', 'ayesha.fatima@email.com', '+91 8765432109', 'Python backend developer...'),

('Emily', 'Johnson', 'emily.johnson@email.com', '+1 2345678901', 'Cloud engineer with AWS certification...'),

('Vikram', 'Singh', 'vikram.singh@email.com', '+91 7654321098', 'Data scientist with deep learning expertise...'),

('Michael', 'Brown', 'michael.brown@email.com', '+1 3456789012', 'Cybersecurity expert with 5 years of experience...'),

('Sanjana', 'Reddy', 'sanjana.reddy@email.com', '+91 6543210987', 'Web developer proficient in React and Node.js...'),

('Lucas', 'Martinez', 'lucas.martinez@email.com', '+33 4567890123', 'Business consultant with international experience...'),

('Neha', 'Sharma', 'neha.sharma@email.com', '+91 5432109876', 'DevOps engineer skilled in Kubernetes and Docker...'),

('Sophia', 'Williams', 'sophia.williams@email.com', '+1 4567890123', 'Experienced business analyst in fintech domain...');

Result Grid						
Filter Rows:			Edit:		Export/Import:	
			Wrap Cell Content:			
ApplicantID	FirstName	LastName	Email	Phone	ApplicantResume	
1	Ravi	Kumar	ravi.kumar@email.com	+91 9876543210	Experienced software developer...	
2	John	Smith	john.smith@email.com	+1 1234567890	Expert in machine learning...	
3	Ayesha	Fatima	ayesha.fatima@email.com	+91 8765432109	Python backend developer...	
4	Emily	Johnson	emily.johnson@email.com	+1 2345678901	Cloud engineer with AWS certification...	
5	Vikram	Singh	vikram.singh@email.com	+91 7654321098	Data scientist with deep learning expertise...	
6	Michael	Brown	michael.brown@email.com	+1 3456789012	Cybersecurity expert with 5 years of experienc...	
7	Sanjana	Reddy	sanjana.reddy@email.com	+91 6543210987	Web developer proficient in React and Node.js...	
8	Lucas	Martinez	lucas.martinez@email.com	+33 4567890123	Business consultant with international experienc...	
9	Neha	Sharma	neha.sharma@email.com	+91 5432109876	DevOps engineer skilled in Kubernetes and Dock...	
10	Sophia	Williams	sophia.williams@email.com	+1 4567890123	Experienced business analyst in fintech domain...	
NULL	NULL	NULL	NULL	NULL	NULL	

INSERT INTO Applications (JobID, ApplicantID, ApplicationDate, CoverLetter) VALUES

(1, 1, '2024-11-12', 'I am excited to apply for this software engineer position...'),

(2, 2, '2024-12-07', 'Data science is my passion, and I look forward to contributing...'),

(3, 3, '2024-12-22', 'As a backend developer, I have built scalable applications...'),

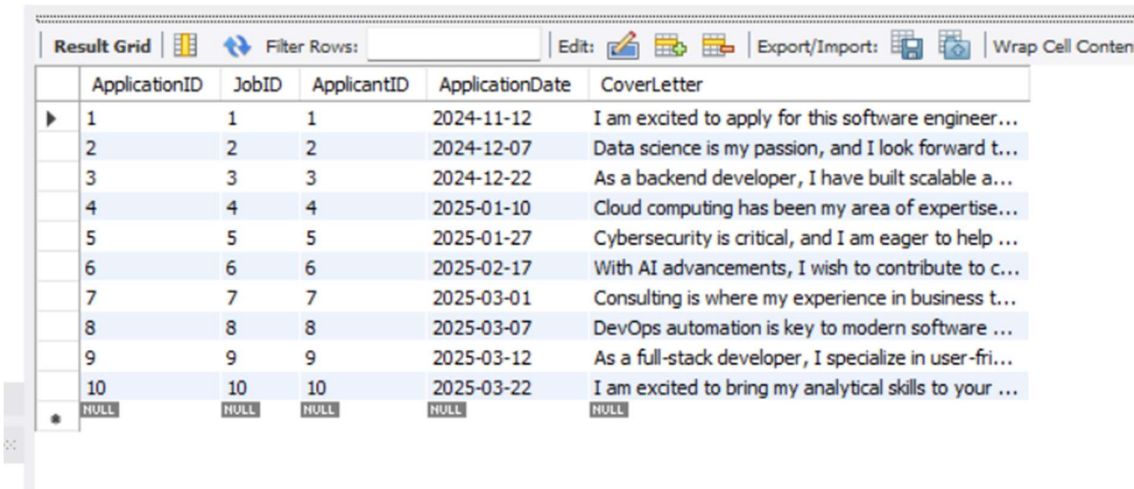
(4, 4, '2025-01-10', 'Cloud computing has been my area of expertise for years...'),

(5, 5, '2025-01-27', 'Cybersecurity is critical, and I am eager to help strengthen systems...'),

(6, 6, '2025-02-17', 'With AI advancements, I wish to contribute to cutting-edge research...'),

(7, 7, '2025-03-01', 'Consulting is where my experience in business transformation fits best...'),

(8, 8, '2025-03-07', 'DevOps automation is key to modern software development, and I excel at it...'),
(9, 9, '2025-03-12', 'As a full-stack developer, I specialize in user-friendly applications...'),
(10, 10, '2025-03-22', 'I am excited to bring my analytical skills to your business strategy team...');



	ApplicationID	JobID	ApplicantID	ApplicationDate	CoverLetter
▶	1	1	1	2024-11-12	I am excited to apply for this software engineer...
	2	2	2	2024-12-07	Data science is my passion, and I look forward t...
	3	3	3	2024-12-22	As a backend developer, I have built scalable a...
	4	4	4	2025-01-10	Cloud computing has been my area of expertise...
	5	5	5	2025-01-27	Cybersecurity is critical, and I am eager to help ...
	6	6	6	2025-02-17	With AI advancements, I wish to contribute to c...
	7	7	7	2025-03-01	Consulting is where my experience in business t...
	8	8	8	2025-03-07	DevOps automation is key to modern software ...
	9	9	9	2025-03-12	As a full-stack developer, I specialize in user-fri...
	10	10	10	2025-03-22	I am excited to bring my analytical skills to your ...
•	NULL	NULL	NULL	NULL	NULL

4. Ensure the script handles potential errors, such as if the database or tables already exist.

❌ 100 15:36:54 CREATE TABLE Companies (CompanyID INT PRIMARY KEY AUTO_INCREMENT, CompanyName VA... Error Code: 1050. Table 'companies' already exists

5. Write an SQL query to count the number of applications received for each job listing in the "Jobs" table. Display the job title and the corresponding application count. Ensure that it lists all jobs, even if they have no applications.

```
SELECT j.JobTitle, COUNT(a.ApplicationID) AS ApplicationCount
FROM Jobs j
LEFT JOIN Applications a ON j.JobID = a.JobID
GROUP BY j.JobID, j.JobTitle;
```

	JobTitle	ApplicationCount
►	Software Engineer	1
	Data Scientist	1
	System Analyst	1
	Cloud Architect	1
	Cybersecurity Specialist	1
	AI Researcher	1
	Consultant	1
	DevOps Engineer	1
	Full Stack Developer	1
	Business Analyst	1

6. Develop an SQL query that retrieves job listings from the "Jobs" table within a specified salary range. Allow parameters for the minimum and maximum salary values. Display the job title, company name, location, and salary for each matching job.

```
SELECT j.JobTitle, c.CompanyName, j.JobLocation, j.Salary
FROM Jobs j
JOIN Companies c ON j.CompanyID = c.CompanyID
WHERE j.Salary BETWEEN '95000.00' AND '130000.00';
```

	JobTitle	CompanyName	JobLocation	Salary
►	Consultant	Accenture	Dublin, Ireland	95000.00
	DevOps Engineer	Capgemini	Paris, France	130000.00
	Business Analyst	IBM	New York, USA	125000.00




7. Write an SQL query that retrieves the job application history for a specific applicant. Allow a parameter for the ApplicantID, and return a result set with the job titles, company names, and application dates for all the jobs the applicant has applied to.

```
SELECT j.JobTitle, c.CompanyName, a.ApplicationDate
FROM Applications a
JOIN Jobs j ON a.JobID = j.JobID
JOIN Companies c ON j.CompanyID = c.CompanyID
WHERE a.ApplicantID = 3;
```

Result Grid	Filter Rows:	Export
JobTitle	CompanyName	ApplicationDate
System Analyst	Infosys	2024-12-22



8. Create an SQL query that calculates and displays the average salary offered by all companies for job listings in the "Jobs" table. Ensure that the query filters out jobs with a salary of zero.

```
SELECT AVG(Salary) AS AverageSalary
FROM Jobs
WHERE Salary > 0;
```

Result Grid			Filter
	AverageSalary		
	530000.000000		

9. Write an SQL query to identify the company that has posted the most job listings. Display the company name along with the count of job listings they have posted. Handle ties if multiple companies have the same maximum count.

```
SELECT c.CompanyName, COUNT(j.JobID) AS JobCount
FROM Companies c
JOIN Jobs j ON c.CompanyID = j.CompanyID
GROUP BY c.CompanyID, c.CompanyName
HAVING COUNT(j.JobID) = (
    SELECT MAX(JobCount)
    FROM (SELECT COUNT(JobID) AS JobCount FROM Jobs GROUP BY CompanyID)
    AS JobCounts
);
```


Result Grid   Filter Rows:		
	CompanyName ▼	JobCount
	Wipro	1
	Tata Consultancy Services	1
	Microsoft	1
	Infosys	1
	IBM	1
▶	HCL Technologies	1
	Google	1
	Capgemini	1
	Amazon	1
	Accenture	1

10. Find the applicants who have applied for positions in companies located in 'CityX' and have at least 3 years of experience.

```
ALTER TABLE Applicants ADD COLUMN ExperienceYears INT NOT NULL DEFAULT 0;
```

```
SET SQL_SAFE_UPDATES = 0;
```

```
UPDATE Applicants
```

```
SET ExperienceYears = CASE
```

```
    WHEN ApplicantID = 1 THEN 5
```

```
    WHEN ApplicantID = 2 THEN 2
```

```
    WHEN ApplicantID = 3 THEN 4
```

```
    WHEN ApplicantID = 4 THEN 1
```

```
    WHEN ApplicantID = 5 THEN 6
```

```
    WHEN ApplicantID = 6 THEN 3
```

```
    WHEN ApplicantID = 7 THEN 7
```

```
    WHEN ApplicantID = 8 THEN 2
```

```
    WHEN ApplicantID = 9 THEN 5
```

```
    WHEN ApplicantID = 10 THEN 8
```

```
END;
```

```
SELECT a.FirstName, a.LastName, c.CompanyName, c.Location, a.ExperienceYears
```

```
FROM Applications app
```

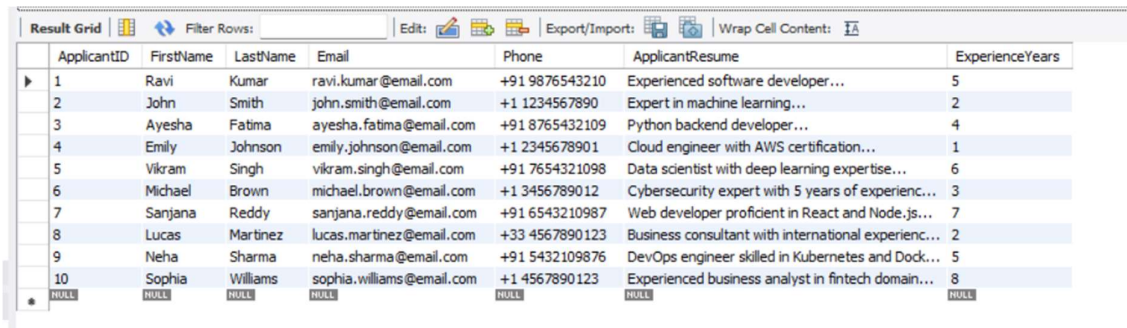
JOIN Jobs j ON app.JobID = j.JobID

JOIN Companies c ON j.CompanyID = c.CompanyID

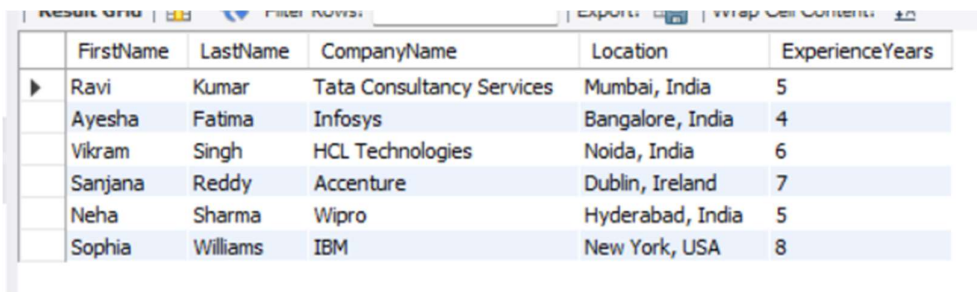
JOIN Applicants a ON app.ApplicantID = a.ApplicantID

WHERE c.Location IN ('Mumbai, India', 'Mountain View, USA', 'Bangalore, India',
'Seattle, USA', 'Noida, India', 'Redmond, USA',
'Dublin, Ireland', 'Paris, France', 'Hyderabad, India', 'New York, USA')

AND a.ExperienceYears > 3;



	ApplicantID	FirstName	LastName	Email	Phone	ApplicantResume	ExperienceYears
▶	1	Ravi	Kumar	ravi.kumar@email.com	+91 9876543210	Experienced software developer...	5
	2	John	Smith	john.smith@email.com	+1 1234567890	Expert in machine learning...	2
	3	Ayesha	Fatima	ayasha.fatima@email.com	+91 8765432109	Python backend developer...	4
	4	Emily	Johnson	emily.johnson@email.com	+1 2345678901	Cloud engineer with AWS certification...	1
	5	Vikram	Singh	vikram.singh@email.com	+91 7654321098	Data scientist with deep learning expertise...	6
	6	Michael	Brown	michael.brown@email.com	+1 3456789012	Cybersecurity expert with 5 years of experienc...	3
	7	Sanjana	Reddy	sanjana.reddy@email.com	+91 6543210987	Web developer proficient in React and Node.js...	7
	8	Lucas	Martinez	lucas.martinez@email.com	+33 4567890123	Business consultant with international experienc...	2
	9	Neha	Sharma	neha.sharma@email.com	+91 5432109876	DevOps engineer skilled in Kubernetes and Dock...	5
	10	Sophia	Williams	sophia.williams@email.com	+1 4567890123	Experienced business analyst in fintech domain...	8
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL



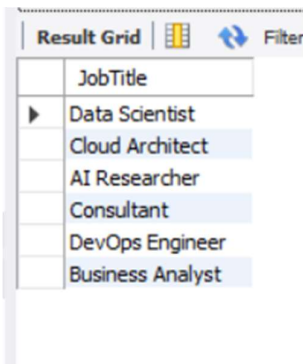
	FirstName	LastName	CompanyName	Location	ExperienceYears
▶	Ravi	Kumar	Tata Consultancy Services	Mumbai, India	5
	Ayesha	Fatima	Infosys	Bangalore, India	4
	Vikram	Singh	HCL Technologies	Noida, India	6
	Sanjana	Reddy	Accenture	Dublin, Ireland	7
	Neha	Sharma	Wipro	Hyderabad, India	5
	Sophia	Williams	IBM	New York, USA	8

11. Retrieve a list of distinct job titles with salaries between \$60,000 and \$80,000.

SELECT DISTINCT JobTitle

FROM Jobs

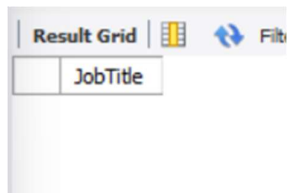
WHERE Salary BETWEEN 60000 AND 800000;



	JobTitle
▶	Data Scientist
	Cloud Architect
	AI Researcher
	Consultant
	DevOps Engineer
	Business Analyst

12. Find the jobs that have not received any applications.

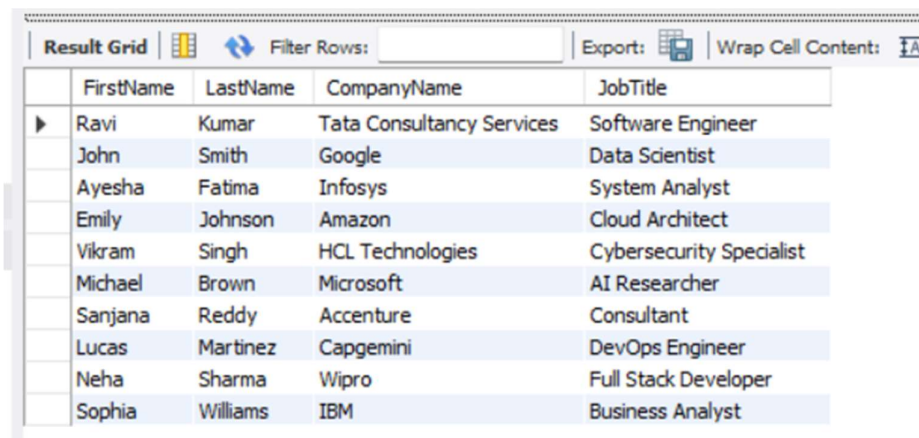
```
SELECT j.JobTitle
FROM Jobs j
LEFT JOIN Applications a ON j.JobID = a.JobID
WHERE a.ApplicationID IS NULL;
```



JobTitle

13. Retrieve a list of job applicants along with the companies they have applied to and the positions they have applied for.

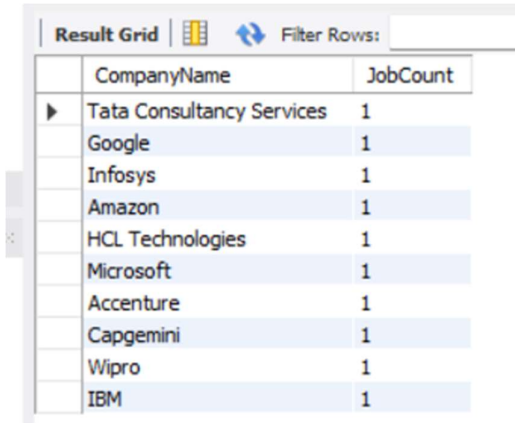
```
SELECT a.FirstName, a.LastName, c.CompanyName, j.JobTitle
FROM Applications app
JOIN Applicants a ON app.ApplicantID = a.ApplicantID
JOIN Jobs j ON app.JobID = j.JobID
JOIN Companies c ON j.CompanyID = c.CompanyID;
```



	FirstName	LastName	CompanyName	JobTitle
▶	Ravi	Kumar	Tata Consultancy Services	Software Engineer
	John	Smith	Google	Data Scientist
	Ayesha	Fatima	Infosys	System Analyst
	Emily	Johnson	Amazon	Cloud Architect
	Vikram	Singh	HCL Technologies	Cybersecurity Specialist
	Michael	Brown	Microsoft	AI Researcher
	Sanjana	Reddy	Accenture	Consultant
	Lucas	Martinez	Capgemini	DevOps Engineer
	Neha	Sharma	Wipro	Full Stack Developer
	Sophia	Williams	IBM	Business Analyst

14. Retrieve a list of companies along with the count of jobs they have posted, even if they have not received any applications.

```
SELECT c.CompanyName, COUNT(j.JobID) AS JobCount
FROM Companies c
LEFT JOIN Jobs j ON c.CompanyID = j.CompanyID
GROUP BY c.CompanyID, c.CompanyName;
```



The screenshot shows a 'Result Grid' window with a table containing two columns: 'CompanyName' and 'JobCount'. The table lists ten companies, each with a job count of 1. The companies are: Tata Consultancy Services, Google, Infosys, Amazon, HCL Technologies, Microsoft, Accenture, Capgemini, Wipro, and IBM. The first row is highlighted with a mouse cursor.

CompanyName	JobCount
Tata Consultancy Services	1
Google	1
Infosys	1
Amazon	1
HCL Technologies	1
Microsoft	1
Accenture	1
Capgemini	1
Wipro	1
IBM	1

15. List all applicants along with the companies and positions they have applied for, including those who have not applied.

```
SELECT a.FirstName, a.LastName, COALESCE(c.CompanyName, 'No Applications') AS
Company,
      COALESCE(j.JobTitle, 'No Applications') AS JobTitle
FROM Applicants a
LEFT JOIN Applications app ON a.ApplicantID = app.ApplicantID
LEFT JOIN Jobs j ON app.JobID = j.JobID
LEFT JOIN Companies c ON j.CompanyID = c.CompanyID;
```

Result Grid Filter Rows: <input type="text"/> Export: Wrap Cell Content:				
	FirstName	LastName	Company	JobTitle
▶	Ravi	Kumar	Tata Consultancy Services	Software Engineer
	John	Smith	Google	Data Scientist
	Ayesha	Fatima	Infosys	System Analyst
	Emily	Johnson	Amazon	Cloud Architect
	Vikram	Singh	HCL Technologies	Cybersecurity Specialist
	Michael	Brown	Microsoft	AI Researcher
	Sanjana	Reddy	Accenture	Consultant
	Lucas	Martinez	Capgemini	DevOps Engineer
	Neha	Sharma	Wipro	Full Stack Developer
	Sophia	Williams	IBM	Business Analyst

16. Find companies that have posted jobs with a salary higher than the average salary of all jobs.

```
SELECT DISTINCT c.CompanyName
FROM Companies c
JOIN Jobs j ON c.CompanyID = j.CompanyID
WHERE j.Salary > (SELECT AVG(Salary) FROM Jobs WHERE Salary > 0);
```

Result Grid Filter Rows: <input type="text"/>	
	CompanyName
▶	Tata Consultancy Services
	Infosys
	HCL Technologies
	Wipro

17. Display a list of applicants with their names and a concatenated string of their city and state.

```
SELECT a.FirstName, a.LastName, CONCAT(c.Location) AS FullAddress
FROM Applicants a
JOIN Applications app ON a.ApplicantID = app.ApplicantID
JOIN Jobs j ON app.JobID = j.JobID
JOIN Companies c ON j.CompanyID = c.CompanyID;
```

	FirstName	LastName	FullAddress
▶	Ravi	Kumar	Mumbai, India
	John	Smith	Mountain View, USA
	Ayesha	Fatima	Bangalore, India
	Emily	Johnson	Seattle, USA
	Vikram	Singh	Noida, India
	Michael	Brown	Redmond, USA
	Sanjana	Reddy	Dublin, Ireland
	Lucas	Martinez	Paris, France
	Neha	Sharma	Hyderabad, India
	Sophia	Williams	New York, USA

18. Retrieve a list of jobs with titles containing either 'Developer' or 'Engineer'.

```
SELECT JobTitle
```

```
FROM Jobs
```

```
WHERE JobTitle LIKE 'Full Stack Developer' OR JobTitle LIKE 'Software Engineer';
```

Result Grid	Filter Rows:
JobTitle	
▶ Software Engineer	
Full Stack Developer	

19. Retrieve a list of applicants and the jobs they have applied for, including those who have not applied and jobs without applicants.

```
SELECT a.FirstName, a.LastName, COALESCE(j.JobTitle, 'No Job Applied') AS JobTitle
```

```
FROM Applicants a
```

```
LEFT JOIN Applications app ON a.ApplicantID = app.ApplicantID
```

```
LEFT JOIN Jobs j ON app.JobID = j.JobID;
```

Result Grid			
Filter Rows:			
	FirstName	LastName	JobTitle
▶	Ravi	Kumar	Software Engineer
	John	Smith	Data Scientist
	Ayesha	Fatima	System Analyst
	Emily	Johnson	Cloud Architect
	Vikram	Singh	Cybersecurity Specialist
	Michael	Brown	AI Researcher
	Sanjana	Reddy	Consultant
	Lucas	Martinez	DevOps Engineer
	Neha	Sharma	Full Stack Developer
	Sophia	Williams	Business Analyst

20. List all combinations of applicants and companies where the company is in a specific city and the applicant has more than 2 years of experience. For example: city=Chennai.

```

SELECT a.FirstName, a.LastName, c.CompanyName, c.Location
FROM Applicants a
CROSS JOIN Companies c
WHERE c.Location IN ('Hyderabad, India')
AND a.ExperienceYears > 2;

```

Result Grid				
Filter Rows:				
	FirstName	LastName	CompanyName	Location
▶	Ravi	Kumar	Wipro	Hyderabad, India
	Ayesha	Fatima	Wipro	Hyderabad, India
	Vikram	Singh	Wipro	Hyderabad, India
	Michael	Brown	Wipro	Hyderabad, India
	Sanjana	Reddy	Wipro	Hyderabad, India
	Neha	Sharma	Wipro	Hyderabad, India
	Sophia	Williams	Wipro	Hyderabad, India