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Career Services Project

1. Return a list of students that were hired in the past month. Return details on the positions.

```
CREATE PROCEDURE spStudentsHiredPastMonth
AS
BEGIN
    DECLARE @PastMonth DATE = DATEADD(MONTH, -1, GETDATE());

    SELECT s.FirstName, s.LastName, j.Title, h.StartDate, h.EndDate
    FROM CareerServices.Students s
    INNER JOIN CareerServices.Applications a ON s.StudentID = a.StudentID
    INNER JOIN CareerServices.Hires h ON a.AppID = h.AppID
    INNER JOIN CareerServices.Job_Postings j ON a.JobID = j.JobID
    WHERE h.StartDate >= @PastMonth;
END;

EXEC spStudentsHiredPastMonth;
```

Results		Messages			
	FirstName	LastName	Title	StartDate	EndDate
1	Ross	Geller	Auditor	2024-06-01	2024-08-31
2	Phoebe	Buffay	Auditor	2024-05-16	2024-07-31
3	Mike	Hannigan	Research Associate	2024-02-02	NULL
4	Ursula	Buffay	Software Engineering	2024-10-01	NULL
5	Ursula	Buffay	Research Associate	2024-05-30	2024-08-30
6	Rachel	Green	Director Assistant	2024-01-03	NULL

2. Write a script that creates a stored procedure named spInsertJobPosting that inserts a row into the job posting table. If the value for the salary column is a negative number, the stored procedure should return a message indicating this number does not exist.

GO

```
CREATE PROC spInsertJobPosting
    @EmployerID INT,
    @Title NVARCHAR(100),
    @Description NVARCHAR(255),
    @PostedDate DATE,
    @Deadline DATE,
    @Location NVARCHAR(100),
```

```

        @Salary DECIMAL(10,2),
        @Requirements NVARCHAR(255),
        @SkillRequired NVARCHAR(255),
        @JobType NVARCHAR(50)
AS
IF @Salary < 0
PRINT 'This number does not exist'
BEGIN
    INSERT INTO CareerServices.Job_Postings
    VALUES (@EmployerID, @Title, @Description, @PostedDate, @Deadline,
@Location,
        @Salary, @Requirements, @SkillRequired, @JobType);
END;

EXEC spInsertJobPosting
    @EmployerID = 3,
    @Title = 'Business Analytics',
    @Description = 'This is description for business analytics intern job',
    @PostedDate = '2023-09-01',
    @Deadline = '2023-12-30',
    @Location = 'CA',
    @Salary = 7000,
    @Requirements = 'Master Degree',
    @SkillRequired = 'SQL,Python',
    @JobType = 'Part Time';

SELECT * FROM CareerServices.Job_Postings;

```

3. Given the job location and skill required, return the employer name, job title, job description, salary, requirements, job location, and deadline to apply
 - a. It should return current job positions that are open for application if both job location and skill required exists (Deadline > Current Date)
 - b. It should show an error message if both Location and Skill are not entered
 - c. It should show error message if Location or Skill does not exist in dataset
 - d. If Location is not entered, should return all jobs that have Skill entered
 - e. If Skill is not entered, should return all jobs that is in the given Location

```

CREATE PROC spLocationSkill
    @location VARCHAR(20) = NULL,
    @skill VARCHAR(50) = NULL
AS
    IF @location IS NULL AND @skill IS NULL
        THROW 50001, 'Please provide either a location or a skill', 1

    IF NOT EXISTS (SELECT Location FROM CareerServices.Job_Postings WHERE
Location LIKE '%' + ISNULL(@location, '') + '%')
        --ISNULL(@location, '') is used to handle empty string

```

```

        THROW 50002, 'There is no jobs available in the selected
location', 2

        IF NOT EXISTS (SELECT SkillRequired FROM CareerServices.Job_Postings
WHERE SkillRequired LIKE '%' + ISNULL(@skill, '') + '%')
        --ISNULL(@skill, '') is used to handle empty string
        THROW 50003, 'There is no jobs available with the skill entered',
3
BEGIN
    IF @location IS NULL
        SELECT *
        FROM CareerServices.Job_Postings
        WHERE SkillRequired LIKE '%' + @skill + '%';
    ELSE IF @skill IS NULL
        SELECT *
        FROM CareerServices.Job_Postings
        WHERE Location LIKE '%' + @location + '%';
    ELSE
        SELECT CompanyName AS 'Company', Title AS 'Job Title',
Description AS 'Job Description', Salary, Requirements, j.Location, Deadline
AS 'Deadline To Apply'
        FROM CareerServices.Employers e
        LEFT JOIN CareerServices.Job_Postings j ON e.EmployerID =
j.EmployerID
        WHERE j.Location LIKE '%' + @location + '%'
        AND SkillRequired LIKE '%' + @skill + '%'
        AND Deadline >= GETDATE()
END;

```

EXEC spLocationSkill

--@skill and @location are not entered, should return error message

Messages

Msg 50001, Level 16, State 1, Procedure spLocationSkill4, Line 6 [Batch Start Line 89]
Please provide either a location or a skill

Completion time: 2023-12-07T20:28:11.4161614-08:00

EXEC spLocationSkill 'NY'

--no @skill entered, should return CareerServices.Job_Postings table with all jobs that have @skill in SkillRequired

Results

JobID	EmployerID	Title	Description	PostedDate	Deadline	Location	Salary	Requirements	SkillRequired	JobType
1	6	Data Analyst	this is description for data analyst job	2023-06-01	2023-12-31	CA, NY, Remote	6000.00	Master Degree, 2 years experience	SQL, Python, R	Full Time
2	8	Auditor	this is description for auditor job	2023-07-01	2023-10-31	NY, TX, CA, NJ, FL	4000.99	Bachelor Degree	Excel, Accounting	Internship
3	8	Customer Value Banking Associate	this is description for banking associate job	2023-08-16	2024-01-31	NY, CA, MN, KY	4999.99	Bachelor Degree, 1 year experience	Microsoft Office, Quickbooks, Customer Service, ...	Full Time

EXEC spLocationSkill @skill = 'Python'

--no @location entered, should return CareerServices.Job_Postings table with all jobs that have @location in Location

	JobID	EmployerID	Title	Description	PostedDate	Deadline	Location	Salary	Requirements	SkillRequired	JobType
1	1	6	Data Analyst	this is description for data analyst job	2023-06-01	2023-12-31	CA, NY, Remote	6000.00	Master Degree, 2 years experience	SQL, Python, R	Full Time
2	6	6	Data Scientist Intern	this is description for data science intern job	2023-08-11	2024-01-01	TX, Remote	6999.99	Master Degree	Data Engineering, Data Research, Data Analysis, ...	Internship
3	10	10	Software Engineering	this is description for software engineering job	2023-06-01	2023-07-01	CA	10999.00	Master Degree, Machine Learning Certifications	AI, Research, Analysis, Analytics, Python, Program...	Full Time
4	11	6	UX Developer	this is description for UX developer job	2023-07-16	2023-11-30	Remote	8889.00	Bachelor or Master Degree, Proficiency in Pytho...	Python, Programming, Visualization	Full Time

EXEC spLocationSkill 'NY', 'Word'

--because 'Word' is not in SkillRequired of any jobs in the dataset, should return an error message

Messages	
Msg 50003, Level 16, State 3, Procedure spLocationSkill4, Line 14 [Batch Start Line 95]	
There is no jobs available with the skill entered	
Completion time: 2023-12-07T20:41:15.5506503-08:00	

EXEC spLocationSkill 'AK', 'Python'

--because 'AK' is not in Location of any jobs in the dataset, should return an error message

120 %	
Messages	
Msg 50002, Level 16, State 2, Procedure spLocationSkill4, Line 10 [Batch Start Line 96]	
There is no jobs available in the selected location	
Completion time: 2023-12-07T20:45:14.2502387-08:00	

EXEC spLocationSkill 'Remote', 'SQL'

120 %

Results

Messages

	Company	Job Title	Job Description	Salary	Requirements	Location	Deadline To Apply
1	Tesla	Data Analyst	this is description for data analyst job	6000.00	Master Degree, 2 years experience	CA, NY, Remote	2023-12-31