**Scenario: Job Portal System**

You are working on a **Job Portal System** that allows **Job Seekers** to apply for jobs posted by **Job Providers**. The system stores job applications in a table called JobApplications.

**Table: JobApplications**

| **ApplicationID** | **JobID** | **JobProviderID** | **JobSeekerID** | **Status** | **AppliedDate** |
| --- | --- | --- | --- | --- | --- |
| 1 | 101 | 201 | 301 | Approved | 2024-02-10 10:30:00 |
| 2 | 102 | 201 | 302 | Pending | 2024-02-11 12:45:00 |
| 3 | 103 | 202 | 303 | Rejected | 2024-02-12 15:20:00 |
| 4 | 101 | 201 | 304 | Approved | 2024-02-13 09:10:00 |
| 5 | 103 | 202 | 305 | Approved | 2024-02-14 11:00:00 |
| 6 | 102 | 201 | 306 | Pending | 2024-02-15 14:25:00 |
| 7 | 101 | 201 | 307 | Approved | 2024-02-16 16:40:00 |
| 8 | 104 | 203 | 308 | Approved | 2024-02-17 10:30:00 |
| 9 | 104 | 203 | 309 | Pending | 2024-02-18 12:45:00 |
| 10 | 104 | 203 | 310 | Approved | 2024-02-19 15:20:00 |

**Q 1: Count Approved Applications Per Job Provider**

Write a SQL query to display the number of approved job applications for each JobProviderID, but only show job providers who have received more than 2 approved applications.

**Expected Output:**

| **JobProviderID** | **ApprovedApplications** |
| --- | --- |
| 201 | 3 |

**Solution:**

SELECT JobProviderID, COUNT(\*) AS ApprovedApplications

FROM JobApplications

WHERE Status = 'Approved'

GROUP BY JobProviderID

HAVING COUNT(\*) > 2;

Modify the original question to also **include job providers who have at least one rejected application** along with having **more than 2 approved applications**.

**Expected Output:**

| **JobProviderID** | **ApprovedApplications** |
| --- | --- |
| 201 | 3 |

**Solution:**

SELECT JobProviderID, COUNT(\*) AS ApprovedApplications

FROM JobApplications

WHERE Status = 'Approved'

GROUP BY JobProviderID

HAVING COUNT(\*) > 2

AND JobProviderID IN (

SELECT JobProviderID

FROM JobApplications

WHERE Status = 'Rejected'

);

**Q2: Find Jobs with More Than One Unique Status**

Retrieve the JobID where applications exist in more than one **status** (Approved, Pending, Rejected).

**Expected Output:**

| **JobID** | **UniqueStatuses** |
| --- | --- |
| 102 | 2 |
| 104 | 3 |

**Solution:**

SELECT JobID, COUNT(DISTINCT Status) AS UniqueStatuses

FROM JobApplications

GROUP BY JobID

HAVING COUNT(DISTINCT Status) > 1;

**Q3: Find Job Providers Who Received Applications in the Last 7 Days**

Find job providers who have received **at least 1 application in the last 7 days** from today's date (GETDATE()).

**Expected Output:**

| **JobProviderID** | **RecentApplications** |
| --- | --- |
| 203 | 2 |

**Solution:**

SELECT JobProviderID, COUNT(\*) AS RecentApplications

FROM JobApplications

WHERE AppliedDate >= DATEADD(DAY, -7, GETDATE())

GROUP BY JobProviderID;

**Q4: Find Job Seekers Who Have Applied for More Than One Job**

Find job seekers (JobSeekerID) who have applied to more than **one unique job**.

**Expected Output:**

| **JobSeekerID** | **TotalJobsApplied** |
| --- | --- |
| 308 | 2 |

**Solution:**

SELECT JobSeekerID, COUNT(DISTINCT JobID) AS TotalJobsApplied

FROM JobApplications

GROUP BY JobSeekerID

HAVING COUNT(DISTINCT JobID) > 1;

**Q5: Find the Most Popular Job with the Highest Applications**

Find the **JobID** that has received the **highest number of applications**.

**Expected Output:**

| **JobID** | **TotalApplications** |
| --- | --- |
| 101 | 3 |

**Solution:**

SELECT TOP 1 JobID, COUNT(\*) AS TotalApplications

FROM JobApplications

GROUP BY JobID

ORDER BY COUNT(\*) DESC;