Question 1:

```
SELECT j.Name, j.Id
FROM Judges j
INNER JOIN Evaluations e ON j.Id = e.JudgeId
GROUP BY j.Name, j.Id
HAVING COUNT(DISTINCT e.ProjectId) > 3
  AND MAX(e.Points) < 5;
```

RA:

temp1 = Judges ⋈_{j.Id = e.JudgeId} Evaluations

temp2 = γ_{j.Name, j.Id} (temp1)

temp3 = σ_{COUNT(DISTINCT e.ProjectId) > 3 AND MAX(e.Points) < 5} (temp2)

result = π_{j.Name, j.Id} (temp3)

Where clause

```
SELECT j.Name, j.Id
FROM Judges j
INNER JOIN (
   SELECT JudgeId
   FROM Evaluations
   GROUP BY JudgeId
   HAVING COUNT(DISTINCT ProjectId) > 3
) e ON j.Id = e.JudgeId
WHERE NOT EXISTS (
   SELECT *
   FROM Evaluations
   WHERE JudgeId = j.Id
   AND Points >= 5
)
```

RA:

temp1 = π JudgeId (σ COUNT(DISTINCT ProjectId) > 3 (Evaluations))

temp2 = Judges ⋈ temp1

temp3 = σ NOT EXISTS (σ Points >= 5 (Evaluations)) (temp2)

result = π Name, Id (temp3)

View:

```
CREATE VIEW ProjectJudgesCount AS
SELECT p.ProjectId, p.Title, p.TeamId, COUNT(jp.JudgeId) AS JudgesCount
FROM Projects p
LEFT JOIN JudgeProject jp ON p.ProjectId = jp.ProjectId
GROUP BY p.ProjectId, p.Title, p.TeamId;
```