

Simplified SQL Queries: Problems 15, 16, 17

15. Freelance Project Tracker

Q4: Simple SQL Queries

1. Find freelancers skilled in Web Development:

```
SELECT * FROM Freelancers WHERE Skill = 'Web Development';
```

2. Projects due in April:

```
SELECT * FROM Projects WHERE MONTH(Deadline) = 4;
```

3. Number of projects each freelancer is working on:

```
SELECT FID, COUNT(*) FROM Assignments GROUP BY FID;
```

4. Freelancers working on both Project 101 and 102:

```
SELECT FID FROM Assignments WHERE PID = 101
```

```
INTERSECT
```

```
SELECT FID FROM Assignments WHERE PID = 102;
```

5. Names of freelancers and their projects:

```
SELECT Freelancers.Name, Projects.Title
```

```
FROM Freelancers
```

```
JOIN Assignments ON Freelancers.FID = Assignments.FID
```

```
JOIN Projects ON Projects.PID = Assignments.PID;
```

16. College Event Management

Q4: Simple SQL Queries

1. List events after 1st April 2025:

```
SELECT * FROM Events WHERE Date > '2025-04-01';
```

2. Students in TechFest:

```
SELECT Students.Name
```

FROM Students

JOIN Participation ON Students.StudentID = Participation.StudentID

JOIN Events ON Participation.EventID = Events.EventID

WHERE Events.Name = 'TechFest';

3. Participants in each event:

SELECT EventID, COUNT(*) FROM Participation GROUP BY EventID;

4. Students in both events 1 and 2:

SELECT StudentID FROM Participation WHERE EventID = 1

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SELECT StudentID FROM Participation WHERE EventID = 2;

5. Students with events they joined:

SELECT Students.Name, Events.Name

FROM Students

JOIN Participation ON Students.StudentID = Participation.StudentID

JOIN Events ON Events.EventID = Participation.EventID;

17. University Admission Portal

Q4: Simple SQL Queries

1. Applicants with score > 85:

SELECT * FROM Applicants WHERE Score > 85;

2. Applicants in Computer Science:

SELECT Applicants.Name

FROM Applicants

JOIN Admissions ON Applicants.ApplicantID = Admissions.ApplicantID

JOIN Departments ON Admissions.DeptID = Departments.DeptID

WHERE Departments.Name = 'Computer Science';

3. Average score for each department:

```
SELECT Departments.Name, AVG(Applicants.Score)
FROM Applicants
JOIN Admissions ON Applicants.ApplicantID = Admissions.ApplicantID
JOIN Departments ON Admissions.DeptID = Departments.DeptID
GROUP BY Departments.Name;
```

4. Applicants for both dept 10 and 11:

```
SELECT ApplicantID FROM Admissions WHERE DeptID = 10
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SELECT ApplicantID FROM Admissions WHERE DeptID = 11;
```

5. Applicant names with department and status:

```
SELECT Applicants.Name, Departments.Name, Admissions.Status
FROM Applicants
JOIN Admissions ON Applicants.ApplicantID = Admissions.ApplicantID
JOIN Departments ON Admissions.DeptID = Departments.DeptID;
```