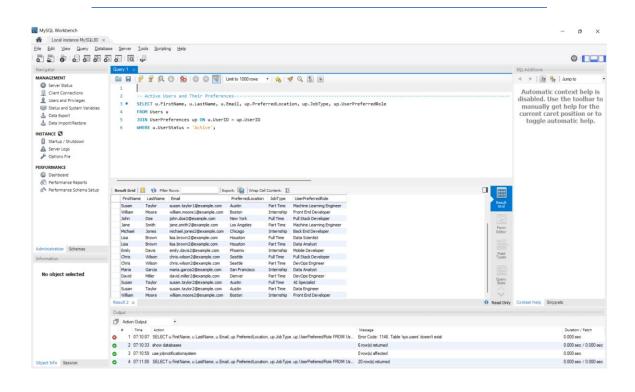
JobNotificationSystem - Sample Result Queries and Examples

1. Active Users and Their Preferences

This query retrieves all active users along with their job preferences including location, job type, and preferred role.

SELECT u.FirstName, u.LastName, u.Email, up.PreferredLocation, up.JobType, up.UserPreferredRole FROM Users u
JOIN UserPreferences up ON u.UserID = up.UserID
WHERE u.UserStatus = 'Active';



2. Jobs Matching User Skills (UserID = 6)

Lists job titles that match the skills of User 6, along with company names and skill names.

```
SELECT DISTINCT j.Jobtitle, c.CompanyName, j.Location, s.SkillName FROM Jobs j

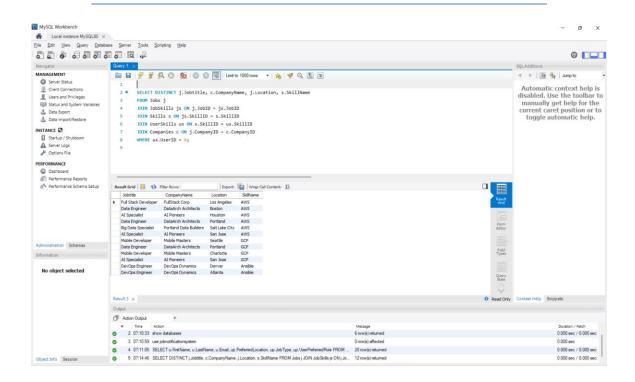
JOIN JobSkills js ON j.JobID = js.JobID

JOIN Skills s ON js.SkillID = s.SkillID

JOIN UserSkills us ON s.SkillID = us.SkillID

JOIN Companies c ON j.CompanyID = c.CompanyID

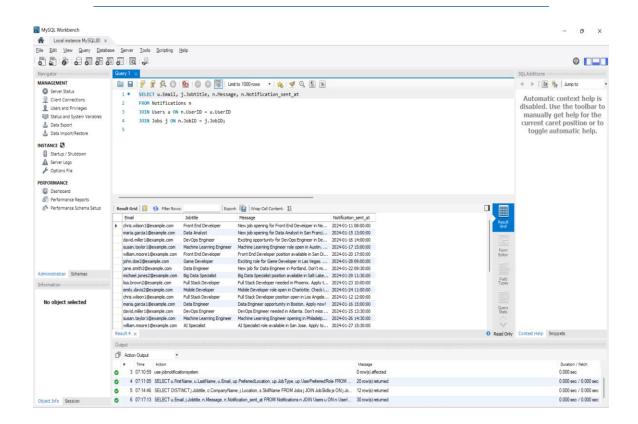
WHERE us.UserID = 6
```



3. Notifications Sent to Users for Matching Jobs

Displays all notifications sent to users about job matches, including job title and message content.

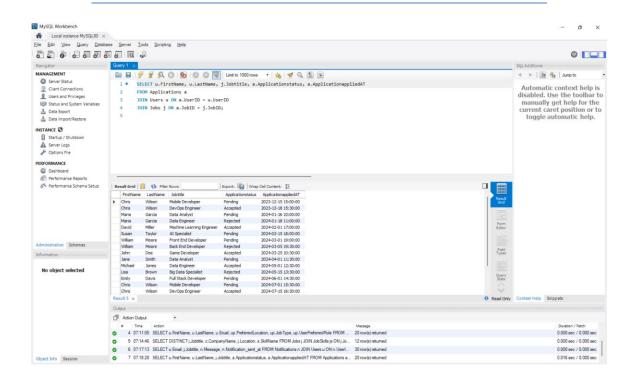
SELECT u.Email, j.Jobtitle, n.Message, n.Notification_sent_at FROM Notifications n JOIN Users u ON n.UserID = u.UserID JOIN Jobs j ON n.JobID = j.JobID;



4. Applications Submitted with Status

Shows which users applied to which jobs, along with their application status and timestamps.

SELECT u.FirstName, u.LastName, j.Jobtitle, a.Applicationstatus, a.ApplicationappliedAT
FROM Applications a
JOIN Users u ON a.UserID = u.UserID
JOIN Jobs j ON a.JobID = j.JobID;



5. Suggest Skills for Job Matching (UserID = 20)

Recommends skills to User 20 that they do not currently have, but are required in job postings.

```
SELECT DISTINCT s.SkillName, s.SkillsourceURL
FROM JobSkills js
JOIN Skills s ON js.SkillID = s.SkillID
WHERE js.SkillID NOT IN (
SELECT us.SkillID
FROM UserSkills us
WHERE us.UserID = 20
);
```

