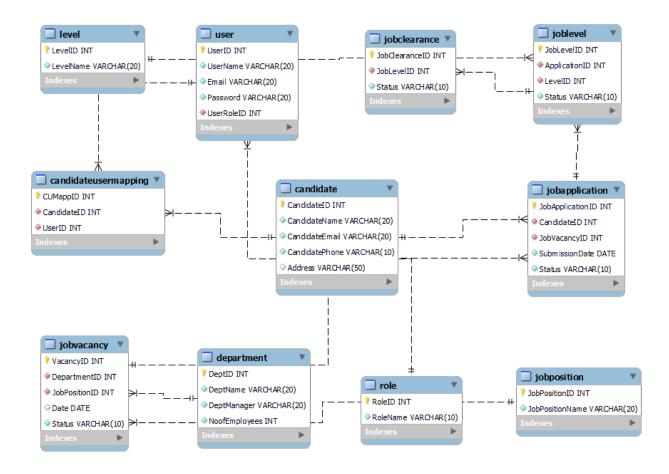
# **DB Task 3 - Querying**

Submitted By,

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### Q. Recruitment Management System

List all the job vacancy created by a particular department for the year 2023 and the number of candidates selected for that post



#### **Sample Data Entered**

```
INSERT INTO Role (RoleID, RoleName) VALUES
(1, 'Admin'),
(2, 'Manager'),
(3, 'Employee'),
(4, 'HR'),
(5, 'Intern');
```

- Insert data into Department Table
INSERT INTO Department (DeptID, DeptName, DeptManager, NoofEmplo
(101, 'IT', 'John Doe', 20),
(102, 'Finance', 'Jane Smith', 15),
(103, 'Marketing', 'Mike Johnson', 25),
(104, 'HR', 'Sara Brown', 10),
(105, 'Operations', 'Tom Wilson', 30);

- Insert data into Candidate Table
INSERT INTO Candidate (CandidateID, CandidateName, CandidateEma:
(201, 'Alice Johnson', 'alice@email.com', '1234567890', '123 Ma:
(202, 'Bob Smith', 'bob@email.com', '9876543210', '456 Oak St, '(203, 'Charlie Brown', 'charlie@email.com', '5678901234', '789 I(204, 'David Wilson', 'david@email.com', '3456789012', '234 Ceda

(205, 'Eva Davis', 'eva@email.com', '8765432109', '567 Elm St, S

- Insert data into JobPosition Table
INSERT INTO JobPosition (JobPositionID, JobPositionName) VALUES
(301, 'Software Developer'),
(302, 'Financial Analyst'),
(303, 'Marketing Specialist'),
(304, 'HR Manager'),
(305, 'Operations Supervisor');

```
- Insert data into Level Table
INSERT INTO Level (LevelID, LevelName) VALUES
(401, 'Entry Level'),
(402, 'Intermediate Level'),
(403, 'Senior Level'),
(404, 'Managerial Level'),
(405, 'Executive Level');
- Insert data into User Table
INSERT INTO User (UserID, UserName, Email, Password, UserRoleID
(501, 'admin_user', 'admin@email.com', 'admin123', 1),
(502, 'manager_user', 'manager@email.com', 'manager456', 2),
(503, 'employee_user', 'employee@email.com', 'employee789', 3),
(504, 'hr_user', 'hr@email.com', 'hr101', 4),
(505, 'intern_user', 'intern@email.com', 'intern202', 5);
- Insert data into JobVacancy Table
INSERT INTO JobVacancy (VacancyID, DepartmentID, JobPositionID,
(601, 102, 302, '2023-01-01', 'Closed'),
(602, 102, 302, '2023-02-01', 'Closed'),
(603, 102, 303, '2023-03-01', 'Closed'),
(604, 102, 303, '2023-04-01', 'Open'),
(605, 102, 304, '2023-05-01', 'Open');
- Insert data into JobApplication Table
INSERT INTO JobApplication (JobApplicationID, CandidateID, JobVa
(701, 201, 601, '2023-01-02', 'Accepted'),
(702, 202, 602, '2023-02-06', 'Accepted'),
(703, 203, 603, '2023-03-11', 'Rejected'),
(704, 204, 604, '2023-04-16', 'Pending'),
(705, 205, 605, '2023-05-21', 'Pending');
```

```
    Insert data into JobLevel Table

INSERT INTO JobLevel (JobLevelID, ApplicationID, LevelID, Status
(801, 701, 401, 'Accepted'),
(802, 702, 402, 'Accepted'),
(803, 703, 403, 'Rejected'),
(804, 704, 404, 'Pending'),
(805, 705, 405, 'Pending');
- Insert data into JobClearance Table
INSERT INTO JobClearance (JobClearanceID, JobLevelID, Status) V/
(901, 801, 'Approved'),
(902, 802, 'Approved'),
(903, 803, 'Rejected'),
(904, 804, 'Pending'),
(905, 805, 'Pending');
- Insert data into CandidateUserMapping Table
INSERT INTO CandidateUserMapping (CUMappID, CandidateID, UserID
(1001, 201, 503),
(1002, 202, 504),
(1003, 203, 505),
(1004, 204, 502),
(1005, 205, 501);
```

# Query

```
SELECT

JV.VacancyID,

JV.Date AS VacancyDate,

JP.JobPositionName,

COUNT(JA.Status) AS SelectedCandidatesCount

FROM
```

```
JobVacancy JV

JOIN JobPosition JP ON JV.JobPositionID = JP.JobPositionID

JOIN JobApplication JA ON JV.VacancyID = JA.JobVacancyID

JOIN Department D ON JV.DepartmentID = D.DeptID

WHERE

D.DeptName = 'Finance'

AND YEAR(JV.Date) = 2023

AND JA.Status = 'Accepted'

GROUP BY

JV.VacancyID, JV.Date, JP.JobPositionName;
```

## Output

VacancyID	VacancyDate	JobPositionName	SelectedCandidatesCount
601	2023-01-01	Financial Analyst	1
602	2023-02-01	Financial Analyst	1

