

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query MDX DMX XMLA DAX

CareerHub Execute

```
-- Creating the database
CREATE DATABASE CareerHub;

-- Use CareerHub database
USE CareerHub;
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-09-27T09:52:19.2085453+05:30

100 %

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 0 rows

Ready

Ln 3 Col 51 Ch 51 INS

Type here to search

31°C Mostly sunny 9:52 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67)* - Microsoft SQL Server Management Studio

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New Query MDX DMX XML DAX

CareerHub Execute

```
-- Table: Companies
CREATE TABLE Companies (
    CompanyID INT PRIMARY KEY,
    CompanyName VARCHAR(255) NOT NULL,
    Location VARCHAR(255) NOT NULL
);

-- Table: Jobs
CREATE TABLE Jobs (
    JobID INT PRIMARY KEY,
    CompanyID INT,
    JobTitle VARCHAR(255) NOT NULL,
    JobDescription TEXT,
    JobLocation VARCHAR(255),
    Salary DECIMAL(10, 2),
    JobType VARCHAR(50),
    PostedDate DATETIME,
    FOREIGN KEY (CompanyID) REFERENCES Companies(CompanyID)
);

-- Table: Applicants
CREATE TABLE Applicants (
    ApplicantID INT PRIMARY KEY,
    FirstName VARCHAR(255) NOT NULL,
    LastName VARCHAR(255) NOT NULL,
    Email VARCHAR(255) NOT NULL,
    Phone VARCHAR(20),
    Resume TEXT
);

-- Table: Applications
CREATE TABLE Applications (
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-09-27T10:20:48.8584462+05:30

100 %

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 0 rows

Ready

Type here to search

Ln 35 Col 3 Ch 3 INS

31°C Mostly sunny 10:20 AM 9/27/2024

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New Query MDX DMX XML DAX

CareerHub Execute

```
SQLQuery1.sql - ZF...ESKTOP\mrraj (67)* X
JobDescription TEXT,
JobLocation VARCHAR(255),
Salary DECIMAL(10, 2),
JobType VARCHAR(50),
PostedDate DATETIME,
FOREIGN KEY (CompanyID) REFERENCES Companies(CompanyID)
);

-- Table: Applicants
CREATE TABLE Applicants (
    ApplicantID INT PRIMARY KEY,
    FirstName VARCHAR(255) NOT NULL,
    LastName VARCHAR(255) NOT NULL,
    Email VARCHAR(255) NOT NULL,
    Phone VARCHAR(20),
    Resume TEXT
);

-- Table: Applications
CREATE TABLE Applications (
    ApplicationID INT PRIMARY KEY,
    JobID INT,
    ApplicantID INT,
    ApplicationDate DATETIME,
    CoverLetter TEXT,
    FOREIGN KEY (JobID) REFERENCES Jobs(JobID),
    FOREIGN KEY (ApplicantID) REFERENCES Applicants(ApplicantID)
);
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-09-27T10:21:02.5889783+05:30

100 %

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 0 rows

Ready

Ln 46 Col 3 Ch 3 INS

Type here to search

31°C Mostly sunny 10:21 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

CareerHub Execute

```
--Ensure the script handles potential errors, such as if the database or tables already exist
-- Check if the database already exists, and create it if it doesn't
IF NOT EXISTS (SELECT * FROM sys.databases WHERE name = 'CareerHub')
BEGIN
    CREATE DATABASE CareerHub;
END
```

100 %

Messages

Commands completed successfully.

Completion time: 2024-09-27T10:21:02.5889783+05:30

100 %

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 0 rows

Ready

Ln 6 Col 4 Ch 4 INS

Type here to search

31°C Mostly sunny 10:26 AM 9/27/2024

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New Query MDX DMX XMLA DAX

CareerHub Execute

SQLQuery1.sql - ZF...ESKTOP\mraraj (67)* X

```
--, , , , , I have experience in business analysis., ,  
(8, 8, 7, '2024-02-25', 'I can provide effective IT solutions.');
```

--Write an SQL query to count the number of applications received for each job listing in the "Jobs" table. Display the job title and the corresponding application count. Ensure that it lists all jobs, even if there are no applications.
SELECT
 j.JobTitle,
 COUNT(a.ApplicationID) AS ApplicationCount
FROM
 Jobs j
LEFT JOIN
 Applications a ON j.JobID = a.JobID
GROUP BY
 j.JobTitle;

100 %

Results Messages

	JobTitle	ApplicationCount
1	Business Analyst	1
2	Data Scientist	1
3	IT Consultant	1
4	Network Engineer	1
5	Project Manager	1
6	Software Developer	1
7	System Analyst	1
8	Web Developer	1

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

CareerHub Execute

SQLQuery1.sql - ZF...ESKTOP\mrraj (67)*

```
--Develop an SQL query that retrieves job listings from the "Jobs" table within a specified salary range. Allow parameters for the minimum and maximum salary values. Display the job title, company name, and salary.
SELECT
    j.JobTitle,
    c.CompanyName,
    j.JobLocation,
    j.Salary
FROM
    Jobs j
JOIN
    Companies c ON j.CompanyID = c.CompanyID
WHERE
    j.Salary BETWEEN 600000 AND 900000;
```

100 %

Results Messages

	JobTitle	CompanyName	JobLocation	Salary
1	Software Developer	Tata Consultancy Services	Mumbai	700000.00
2	System Analyst	Tata Consultancy Services	Mumbai	800000.00
3	Data Scientist	Infosys	Bengaluru	900000.00
4	Web Developer	Wipro	Pune	600000.00
5	Network Engineer	HCL Technologies	Noida	750000.00
6	Business Analyst	Cognizant	Chennai	850000.00

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New Query MDX DMX XMLA DAX

CareerHub Execute

--Write an SQL query that retrieves the job application history for a specific applicant. Allow a parameter for the ApplicantID, and return a result set with the job titles, company names, and application dates.

-- Example value

```
-- SELECT
--     j.JobTitle,
--     c.CompanyName,
--     a.ApplicationDate
-- FROM
--     Applications a
-- JOIN
--     Jobs j ON a.JobID = j.JobID
-- JOIN
--     Companies c ON j.CompanyID = c.CompanyID
-- WHERE
--     a.ApplicantID = 1;
```

100 %

Results Messages

	JobTitle	CompanyName	ApplicationDate
1	Software Developer	Tata Consultancy Services	2024-01-12 00:00:00.000
2	System Analyst	Tata Consultancy Services	2024-01-16 00:00:00.000

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 2 rows

Ready

Type here to search

Ln 132 Col 23 Ch 23 INS

31°C Mostly sunny 10:46 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

CareerHub Execute

```
--Create an SQL query that calculates and displays the average salary offered by all companies job listings in the "Jobs" table. Ensure that the query filters out jobs with a salary of zero
SELECT
    AVG(Salary) AS AverageSalary
FROM
    Jobs
WHERE
    Salary > 0;
```

100 %

Results Messages

AverageSalary
1 818750.000000

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 1 rows

Ready

Ln 142 Col 5 Ch 5 INS

Type here to search 31°C Mostly sunny 10:49 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XML DAX

CareerHub Execute

```
--Write an SQL query to identify the company that has posted the most job listings. Display the company name along with the count of job listings they have posted. Handle ties if multiple companies have the same maximum job count.
WITH CompanyJobCounts AS (
    SELECT
        c.CompanyName,
        COUNT(j.JobID) AS JobCount
    FROM
        Companies c
    LEFT JOIN
        Jobs j ON c.CompanyID = j.CompanyID
    GROUP BY
        c.CompanyName
)
SELECT
    CompanyName,
    JobCount
FROM
    CompanyJobCounts
WHERE
    JobCount = (SELECT MAX(JobCount) FROM CompanyJobCounts);
```

100 %

Results Messages

	CompanyName	JobCount
1	Tata Consultancy Services	2

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 1 rows

Ready

Type here to search

Ln 163 Col 61 Ch 61 INS

31°C Mostly sunny 10:52 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XML DAX

CareerHub Execute

--Find the applicants who have applied for positions in companies located in 'CityX' and have at least 3 years of experience.

```
SELECT
    a.FirstName,
    a.LastName,
    a.ExperienceYears,
    c.CompanyName,
    c.Location AS CompanyCity
FROM
    Applicants a
JOIN
    Applications ap ON a.ApplicantID = ap.ApplicantID
JOIN
    Jobs j ON ap.JobID = j.JobID
JOIN
    Companies c ON j.CompanyID = c.CompanyID
WHERE
    c.Location = 'Bangalore'
    AND a.ExperienceYears >= 3;
```

100 %

Results Messages

FirstName	LastName	ExperienceYears	CompanyName	CompanyCity
-----------	----------	-----------------	-------------	-------------

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 0 rows

Ready

Type here to search

Ln 347 Col 32 Ch 32 INS

31°C Mostly sunny 11:40 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

CareerHub Execute

```
--Retrieve a list of distinct job titles with salaries between $60,000 and $80,000
SELECT DISTINCT
    JobTitle
FROM
    Jobs
WHERE
    Salary BETWEEN 60000 AND 80000;
```

100 %

Results Messages

	JobTitle
1	Network Engineer
2	Software Developer
3	System Analyst
4	Web Developer

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 4 rows

Ready

Ln 172 Col 36 Ch 36 INS

Type here to search

31°C Mostly sunny 10:59 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query MDX DMX XMLA DAX

CareerHub Execute

```
--Find the jobs that have not received any applications.
SELECT
    j.JobID,
    j.JobTitle,
    j.CompanyID,
    j.JobLocation,
    j.Salary,
    j.JobType,
    j.PostedDate
FROM
    Jobs j
LEFT JOIN
    Applications a ON j.JobID = a.JobID
WHERE
    a.ApplicationID IS NULL;
```

100 %

Results Messages

JobID	JobTitle	CompanyID	JobLocation	Salary	JobType	PostedDate
-------	----------	-----------	-------------	--------	---------	------------

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 0 rows

Ready

Ln 217 Col 46 Ch 46 INS

Type here to search

31°C Mostly sunny 11:42 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XML DAX

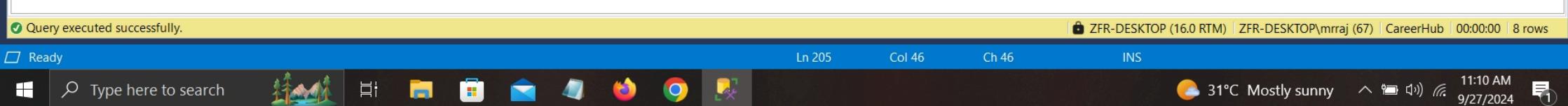
CareerHub Execute

```
--Retrieve a list of job applicants along with the companies they have applied to and the positions they have applied for.
SELECT
    a.FirstName,
    a.LastName,
    c.CompanyName,
    j.JobTitle
FROM
    Applicants a
JOIN
    Applications ap ON a.ApplicantID = ap.ApplicantID
JOIN
    Jobs j ON ap.JobID = j.JobID
JOIN
    Companies c ON j.CompanyID = c.CompanyID;
```

100 %

Results Messages

	FirstName	LastName	CompanyName	JobTitle
1	Rajesh	Kumar	Tata Consultancy Services	Software Developer
2	Rajesh	Kumar	Tata Consultancy Services	System Analyst
3	Sita	Patel	Infosys	Data Scientist
4	Anil	Sharma	Wipro	Web Developer
5	Priya	Desai	HCL Technologies	Network Engineer
6	Vikram	Singh	Tech Mahindra	Project Manager
7	Neha	Reddy	Cognizant	Business Analyst
8	Ravi	Mehta	Capgemini	IT Consultant



SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67)* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

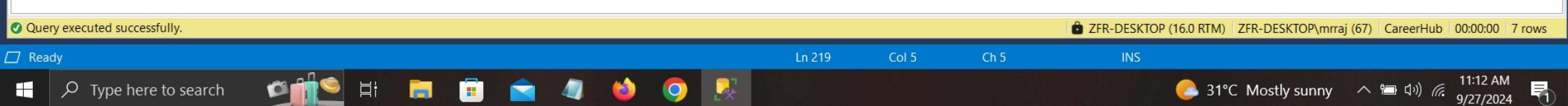
CareerHub Execute

```
--Retrieve a list of companies along with the count of jobs they have posted, even if they have not received any applications
SELECT
    c.CompanyName,
    COUNT(j.JobID) AS JobCount
FROM
    Companies c
LEFT JOIN
    Jobs j ON c.CompanyID = j.CompanyID
GROUP BY
    c.CompanyID, c.CompanyName;
```

100 %

Results Messages

	CompanyName	JobCount
1	Tata Consultancy Services	2
2	Infosys	1
3	Wipro	1
4	HCL Technologies	1
5	Tech Mahindra	1
6	Cognizant	1
7	Capgemini	1



SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XML DAX

CareerHub Execute

--List all applicants along with the companies and positions they have applied for, including those who have not applied.

```
SELECT
    a.FirstName,
    a.LastName,
    c.CompanyName,
    j.JobTitle
FROM
    Applicants a
LEFT JOIN
    Applications ap ON a.ApplicantID = ap.ApplicantID
LEFT JOIN
    Jobs j ON ap.JobID = j.JobID
LEFT JOIN
    Companies c ON j.CompanyID = c.CompanyID;
```

Results Messages

	FirstName	LastName	CompanyName	JobTitle
1	Rajesh	Kumar	Tata Consultancy Services	Software Developer
2	Rajesh	Kumar	Tata Consultancy Services	System Analyst
3	Sita	Patel	Infosys	Data Scientist
4	Anil	Sharma	Wipro	Web Developer
5	Priya	Desai	HCL Technologies	Network Engineer
6	Vikram	Singh	Tech Mahindra	Project Manager
7	Neha	Reddy	Cognizant	Business Analyst
8	Ravi	Mehta	Capgemini	IT Consultant

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 9 rows

Ready

Type here to search

Ln 233 Col 46 Ch 46 INS

31°C Mostly sunny 11:14 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XML DAX

CareerHub Execute

SQLQuery1.sql - ZF...ESKTOP\mrraj (67)*

```
--Find companies that have posted jobs with a salary higher than the average salary of all jobs
SELECT
    DISTINCT c.CompanyName
FROM
    Companies c
JOIN
    Jobs j ON c.CompanyID = j.CompanyID
WHERE
    j.Salary > (SELECT AVG(Salary) FROM Jobs);
```

100 %

Results Messages

	CompanyName
1	Capgemini
2	Cognizant
3	Infosys
4	Tech Mahindra

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 4 rows

Ready

Type here to search

Ln 244 Col 47 Ch 47 INS

31°C Mostly sunny 11:16 AM 9/27/2024

SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

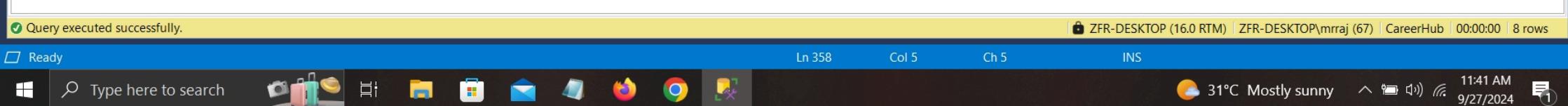
CareerHub Execute

```
--Display a list of applicants with their names and a concatenated string of their city and state
SELECT
    FirstName,
    LastName,
    CONCAT(City, ', ', State) AS CityState
FROM
    Applicants;
```

100 %

Results Messages

	FirstName	LastName	CityState
1	Rajesh	Kumar	Delhi, Delhi
2	Sita	Patel	Ahmedabad, Gujarat
3	Anil	Sharma	Jaipur, Rajasthan
4	Priya	Desai	Mumbai, Maharashtra
5	Vikram	Singh	Bangalore, Karnataka
6	Neha	Reddy	Hyderabad, Telangana
7	Ravi	Mehta	Chennai, Tamil Nadu
8	Aditi	Khan	Kolkata, West Bengal



SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

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New Query MDX DMX XMLA DAX

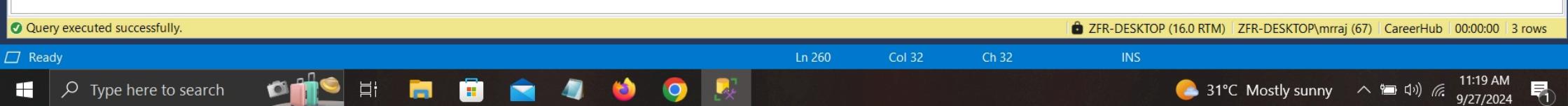
CareerHub Execute

```
--Retrieve a list of jobs with titles containing either 'Developer' or 'Engineer'.
SELECT
    JobTitle,
    CompanyID,
    JobDescription,
    JobLocation,
    Salary,
    JobType,
    PostedDate
FROM
    Jobs
WHERE
    JobTitle LIKE '%Developer%' OR
    JobTitle LIKE '%Engineer%';
```

100 %

Results Messages

	JobTitle	CompanyID	JobDescription	JobLocation	Salary	JobType	PostedDate
1	Software Developer	1	Develop and maintain software applications.	Mumbai	700000.00	Full-time	2024-01-10 00:00:00.000
2	Web Developer	3	Design and develop websites.	Pune	600000.00	Part-time	2024-02-05 00:00:00.000
3	Network Engineer	4	Manage and maintain network systems.	Noida	750000.00	Full-time	2024-02-10 00:00:00.000



SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query MDX DMX XMLA DAX

CareerHub Execute

SQLQuery1.sql - ZF...ESKTOP\mrraj (67)*

```
--Retrieve a list of applicants and the jobs they have applied for, including those who have not applied and jobs without applicants.
SELECT
    a.FirstName,
    a.LastName,
    j.JobTitle,
    c.CompanyName
FROM
    Applicants a
LEFT JOIN
    Applications ap ON a.ApplicantID = ap.ApplicantID
LEFT JOIN
    Jobs j ON ap.JobID = j.JobID
LEFT JOIN
    Companies c ON j.CompanyID = c.CompanyID;
```

100 %

Results Messages

	FirstName	LastName	JobTitle	CompanyName
1	Rajesh	Kumar	Software Developer	Tata Consultancy Services
2	Rajesh	Kumar	System Analyst	Tata Consultancy Services
3	Sita	Patel	Data Scientist	Infosys
4	Anil	Sharma	Web Developer	Wipro
5	Priya	Desai	Network Engineer	HCL Technologies
6	Vikram	Singh	Project Manager	Tech Mahindra
7	Neha	Reddy	Business Analyst	Cognizant
8	Ravi	Mehta	IT Consultant	Capgemini
9	Aditi	Khan	NULL	NULL

Query executed successfully.

ZFR-DESKTOP (16.0 RTM) | ZFR-DESKTOP\mrraj (67) | CareerHub | 00:00:00 | 9 rows

Ready

Ln 276

Col 46

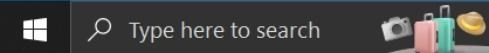
Ch 46

INS



31°C Mostly sunny

11:22 AM
9/27/2024



SQLQuery1.sql - ZFR-DESKTOP.CareerHub (ZFR-DESKTOP\mrraj (67))* - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query MDX DMX XML DAX

CareerHub Execute

```
--List all combinations of applicants and companies where the company is in a specific city and the applicant has more than 2 years of experience. For example: city=Chennai
SELECT
    a.FirstName,
    a.LastName,
    c.CompanyName,
    c.Location AS CompanyCity,
    a.ExperienceYears
FROM
    Applicants a
JOIN
    Applications ap ON a.ApplicantID = ap.ApplicantID
JOIN
    Jobs j ON ap.JobID = j.JobID
JOIN
    Companies c ON j.CompanyID = c.CompanyID
WHERE
    c.Location = 'Hyderabad'
    AND a.ExperienceYears > 2;
```

100 %

Results Messages

	FirstName	LastName	CompanyName	CompanyCity	ExperienceYears
1	Vikram	Singh	Tech Mahindra	Hyderabad	6

