RAJ SINGH *presents*

BADA SKILLS · BOOK 1

SQL HERO

U — UNDERSTANDABLE, FOR ALL

Ek Query. Ek Hero. Naya Career.

From Zero to Job-Ready with Microsoft SQL Server

+ AI INSIDE
Learn SQL with GitHub Copilot in SSMS



MyCareer.sql ×

```
1  SELECT  NewJob, BetterSalary
2  FROM    SQLHero
3  WHERE   You = 'Ready';
```

	NewJob	BetterSalary
1	Data Analyst	Yes

✓ Query executed successfully.

- Job-ready in 30 days
- Interview Q&A + answers
- Real business project
- Cheat sheets



WRITTEN AND DIRECTED BY

RAJ SINGH

Microsoft Certified Trainer (MCT) · 19+ years
11 lakh+ professionals trained · 500+ companies

12	70+	139+	FREE
Filmy chapters	Real SSMS screenshots	Interview Q&A	Software to start

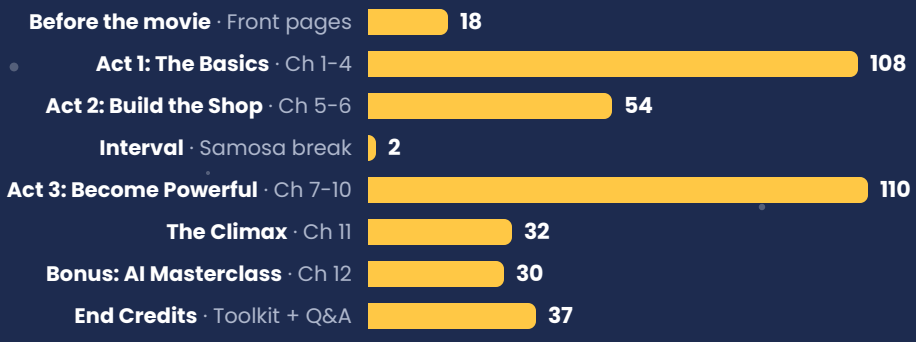
THE FULL MOVIE · BOOK AT A GLANCE

SQL HERO: the whole story

One book. 12 films. 1 interval. 1 happy ending.

391 pages in total	**11 + 1** films + 1 bonus AI chapter	**30 days** about 12 pages a day	**139** interview Q&A
12 Galti Gang comic strips	**13** night-scene comics	**15** Prompt Pandit corners	**1** practice shop: Bada Bazaar

HOW THE MOVIE IS CUT (PAGES PER PART)



WHERE THE 391 PAGES GO



- **43%** Teaching + hands-on (170 p)
- **25%** Story + fun (99 p)
- **10%** AI with Prompt Pandit (39 p)
- **15%** Practice + interview (58 p)
- **6%** Front + back pages (25 p)



Poori picture yahan hai. Ab ek-ek scene enjoy karo!

The whole movie is here. Now enjoy it one scene at a time!

FOR EVERY CHAPTER

Story first, then hands-on, then a laugh, then practice. Every Hinglish line has its English meaning below it.

Information as of 13 Nov 2026. SQL Server 2025 Express + SSMS 22.

Contents

ACT 1 · THE BASICS · PART 2 OF 8

01 Hello, SQL!

CHAPTER 1 · PAGES 1–21 · 21 PAGES

Introduction to SQL Server



Monday, 9 AM. Rahul joins Bada Bazaar, a retail company with shops in 8 cities.

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Night Scene · Excel ka Crash 7
Galti Gang · 3 beginner myths 13
Chik-Chik · Orientation day 10
Prompt Pandit · Preview: ask Prompt Pandit to ex 15
Chai Break · Nani and the bahi-khata 18
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02 Set Up Your Lab

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Install SQL Server 2025 Express + SSMS 22



Tuesday, 6 PM. Raj Sir gives homework: practise SQL every evening.

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Chai Break · Papa and the free software 46
Audition · Interview Qs + Kaun Sahi? 48



Chapter 1 toh chhota hai... main seedha Chapter 2 pe jaata hoon!

Chapter 1 is short... I will jump straight to Chapter 2!

Nahi Chintu! Kahani Chapter 1 se hi shuru hoti hai.

No, Chintu! The story starts in Chapter 1 itself.



Contents

THE CLIMAX + BONUS · PART 7 OF 8

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The Hero Project CLIMAX

Build a real business report



Friday, 5 PM. Mr. Deadline walks in with a file.

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12

CHAPTER 12 · PAGES 307–336 · 30 PAGES

Prompt Pandit Ki Entry BONUS

Bonus: GitHub Copilot in SSMS



Monday, 9 AM. Rahul is now Senior MIS Analyst. The requests double.

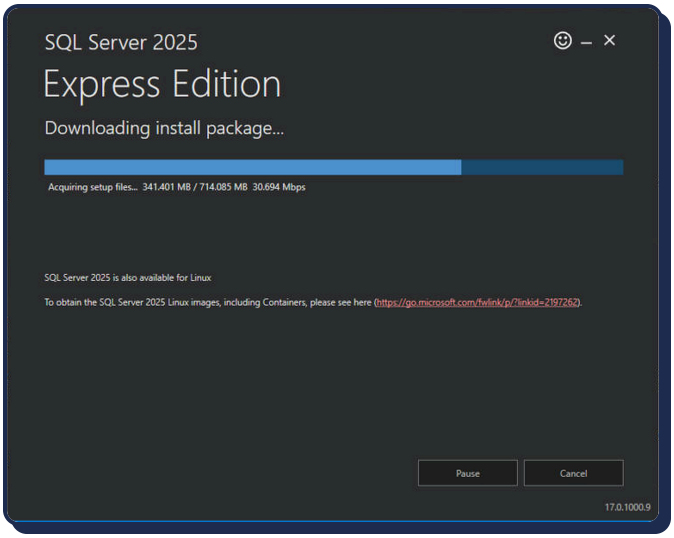
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Audition · Interview Qs + Kaun Sahi? 335

LIGHTS · CAMERA · F5! 2.1 PART B

Install SQL Server 2025 Express

Accept, wait, and do not click Cancel.

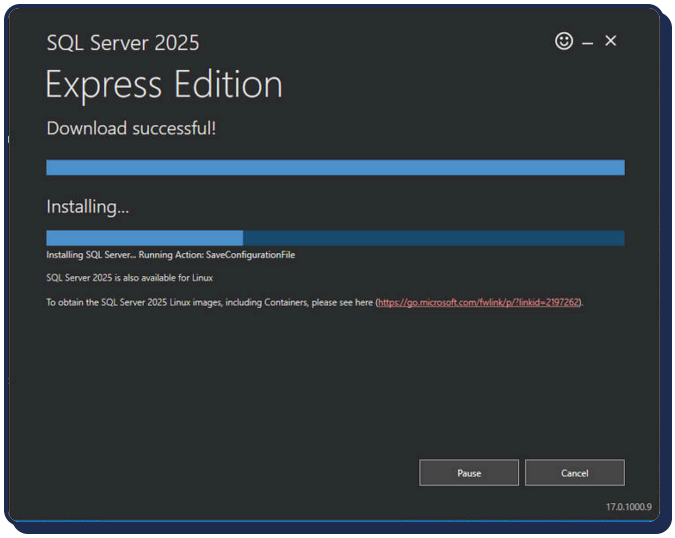


3 Accept and install

1. License terms: click **Accept**
2. Install location: **keep as it is**
3. Click **Install**. The download starts

4 Wait 15 to 20 minutes

1. First it downloads, then it installs
2. Do **not** click **Cancel** or **Pause**
3. Keep the laptop **plugged in**





Main toh 90% pe Cancel daba deta... slow lag raha tha!
I would have clicked Cancel at 90%... it felt slow!



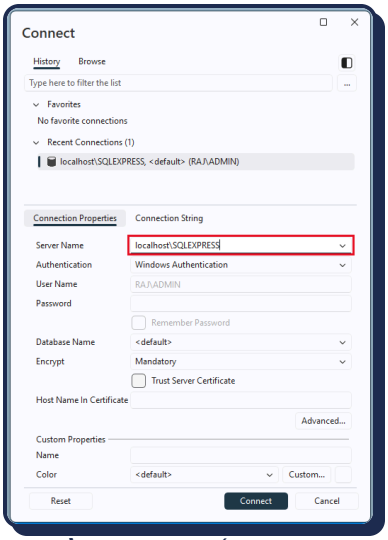
Ek comma bhoole... aur main aa gaya!
Forget one comma... and here I come!

LIGHTS · CAMERA · F5! 2.3 PART B

Fill the Connect window

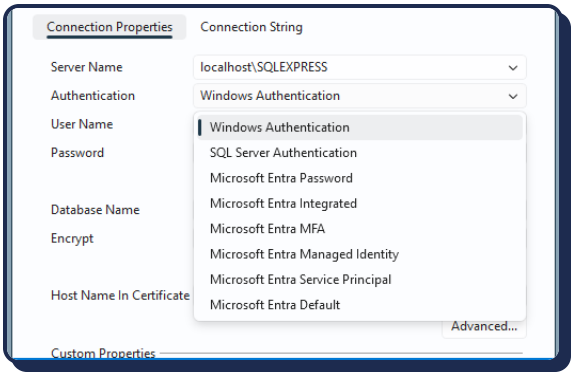
SSMS opens the **Connect** window first. Fill 4 boxes, then click Connect.

1 Server Name



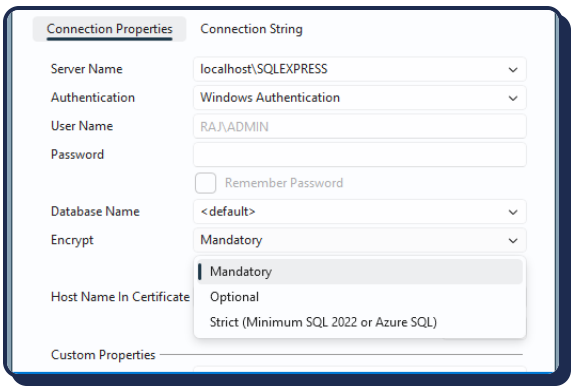
Type **localhost \ SQLEXPRESS** (a backslash, not /)

2 Authentication



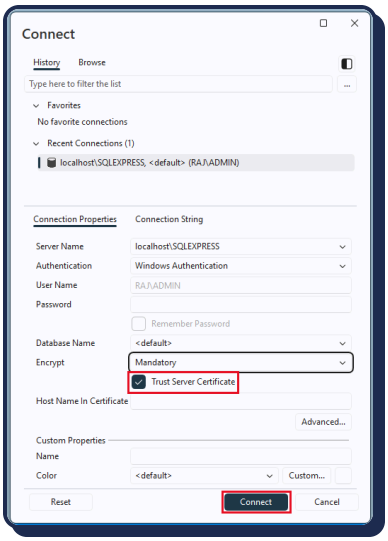
Keep **Windows Authentication**. No password needed

3 Encrypt



Keep **Mandatory**. It keeps the connection safe

4 Trust Server Certificate



Tick it, then click **Connect**



Maine slash ulta laga diya: localhost/SQLEXPRESS. Server mila hi nahi!
I typed the slash the wrong way: localhost/SQLEXPRESS. The server was not found!

DID YOU KNOW? A table can hold **millions** of rows. SQL still finds your row in a blink.

LIGHTS · CAMERA · F5! 2.4 STEP 1 OF 1

Your first query: list all databases

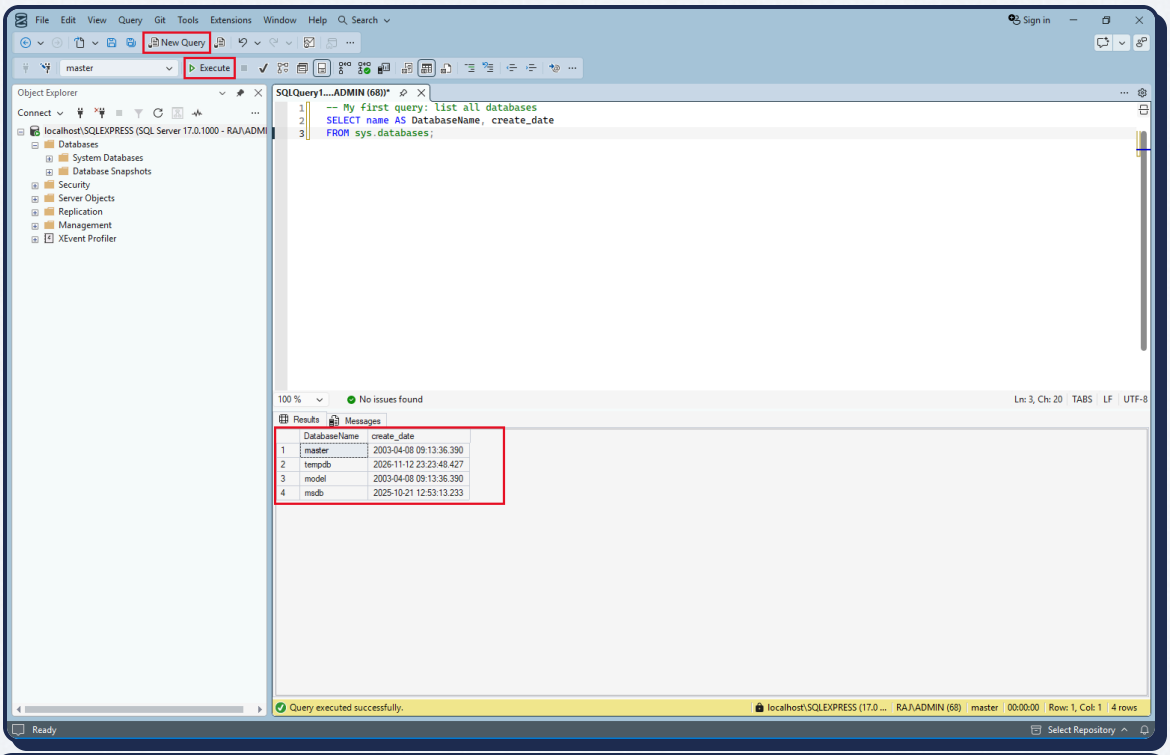
Ch02_Test-Your-Install.sql ×

```
1  -- My first query: list all databases
2  SELECT name AS DatabaseName, create_date
3  FROM sys.databases;
4
5  -- Two more health checks (run one at a time)
6  SELECT @@VERSION    AS MySQLServerVersion;
7  SELECT @@SERVERNAME AS MyServerName;
```

1. TYPE THIS
Click **New Query** (top left). Type the code below in the white window.

2. ACTION!
Select the lines and press **F5** (or click **Execute**).

3. CUT! CHECK IT
4 databases: master, tempdb, model, msdb. Status bar: **Query executed successfully.**



WHAT THE RESULT SAYS

1. These 4 are **system databases**: SQL Server needs them
2. @@VERSION shows **Microsoft SQL Server 2025**
3. @@SERVERNAME shows **YOUR-PC-NAME \ SQLEXPRESS**

DID YOU KNOW?
Lines starting with **--** are notes. SQL Server skips them.

RAJ SIR'S PRO TIP
Select only some lines + F5 = **only those lines run**.

YOUR TURN PRACTICE

Now you are the hero

Open SSMS, pick **BadaBazaar**, and try each task. Write your query in the lines.

1 **Find your SQL Server version.**

2 **Find your server name.**

3 **List all databases on your server.**

4 **Close SSMS, open it again and connect without help.**

5 **Write your instance name and Connect values in a notebook.**

Pehle khud try karo, phir answer dekho!

Try yourself first, then check the answer!



ANSWERS (turn the book upside down)

```
1. SELECT @@VERSION;
2. SELECT @@SERVERNAME;
3. SELECT name FROM sys.databases;
4. localhost\SQLEXPRESS + Windows Authentication + Trust ticked
5. SQLEXPRESS, localhost\SQLEXPRESS, Windows Auth, Mandatory, Trust
```

QUICK QUIZ Default instance name? SQLEXPRESS

LIGHTS · CAMERA · F5! 5.1 STEP 1 OF 7

CREATE DATABASE: build the almirah

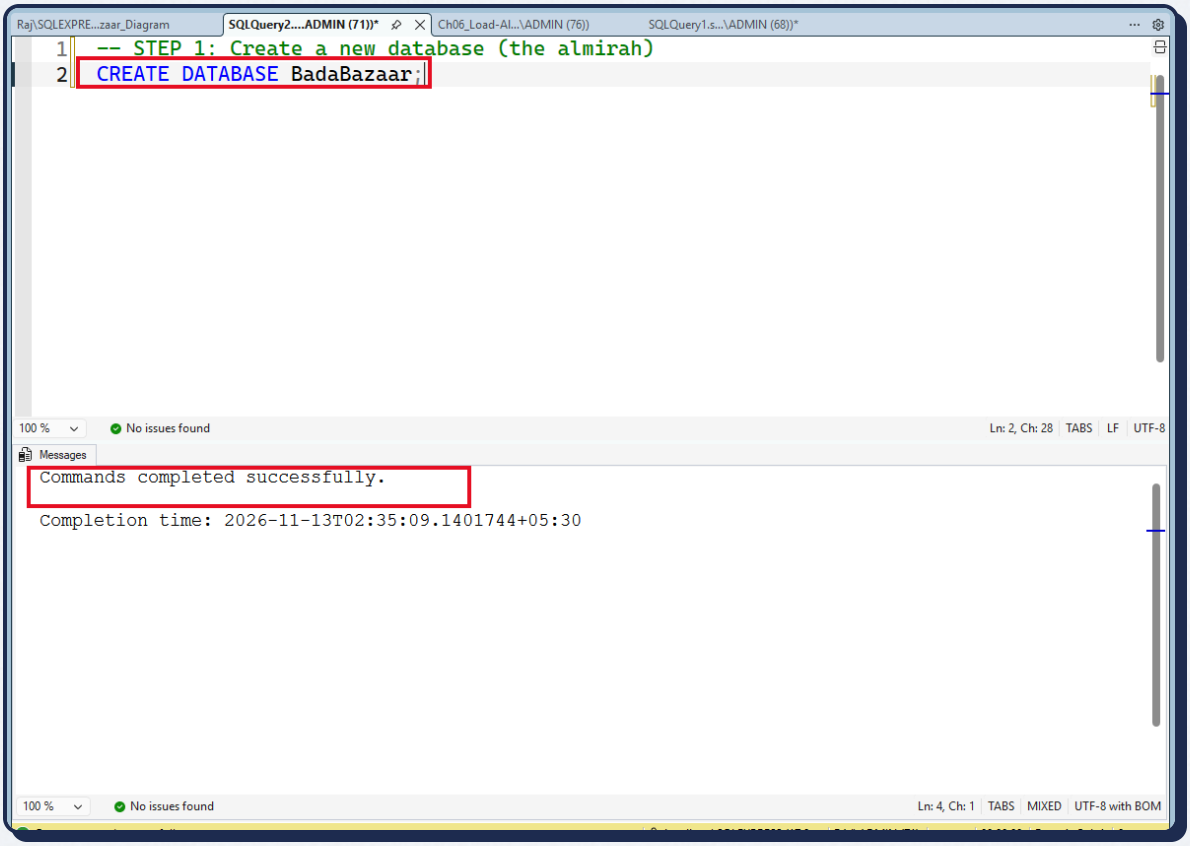
Ch05_Build-the-Shop.sql ×

```
1  -- STEP 1: Create a new database (the almirah)
2  CREATE DATABASE BadaBazaar;
```

1. TYPE THIS
Open a New Query and type (or copy) the code below.

2. ACTION!
Select the lines and press **F5** (or click **Execute**).

3. CUT! CHECK IT
Messages: **Commands completed successfully.**



WHAT THE RESULT SAYS

1. A new, empty database now exists
2. No rows came back: CREATE builds, it does not show data



Bas ek line? Almirah itni jaldi ban gayi?
Just one line? The almirah was built so fast?

LIGHTS · CAMERA · F5! 5.3 STEP 3 OF 7

USE the database, then create Cities

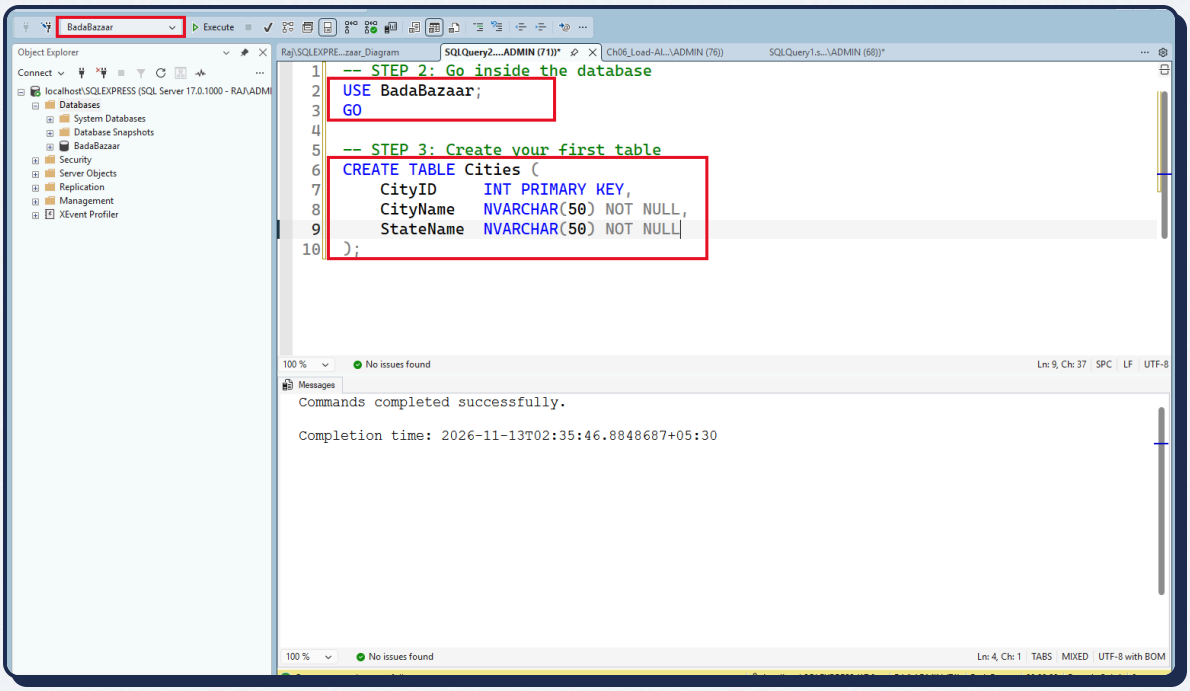
Ch05_Build-the-Shop.sql ×

```
1  -- STEP 2: Go inside the database
2  USE BadaBazaar;
3  GO
4
5  -- STEP 3: Create your first table
6  CREATE TABLE Cities (
7      CityID     INT PRIMARY KEY,
8      CityName   NVARCHAR(50) NOT NULL,
9      StateName  NVARCHAR(50) NOT NULL
10 );
```

1. TYPE THIS
Open a New Query and type (or copy) the code below.

2. ACTION!
Select the lines and press **F5** (or click **Execute**).

3. CUT! CHECK IT
Commands completed successfully. The database box shows **BadaBazaar**.



WHAT THE RESULT SAYS

1. **USE** = go inside this almirah
2. **GO** = "finish this part, then continue"
3. Each column: **name, type, rule**

LIGHTS · CAMERA · F5! 7.1 STEP 1 OF 8

Your first SELECT: see everything

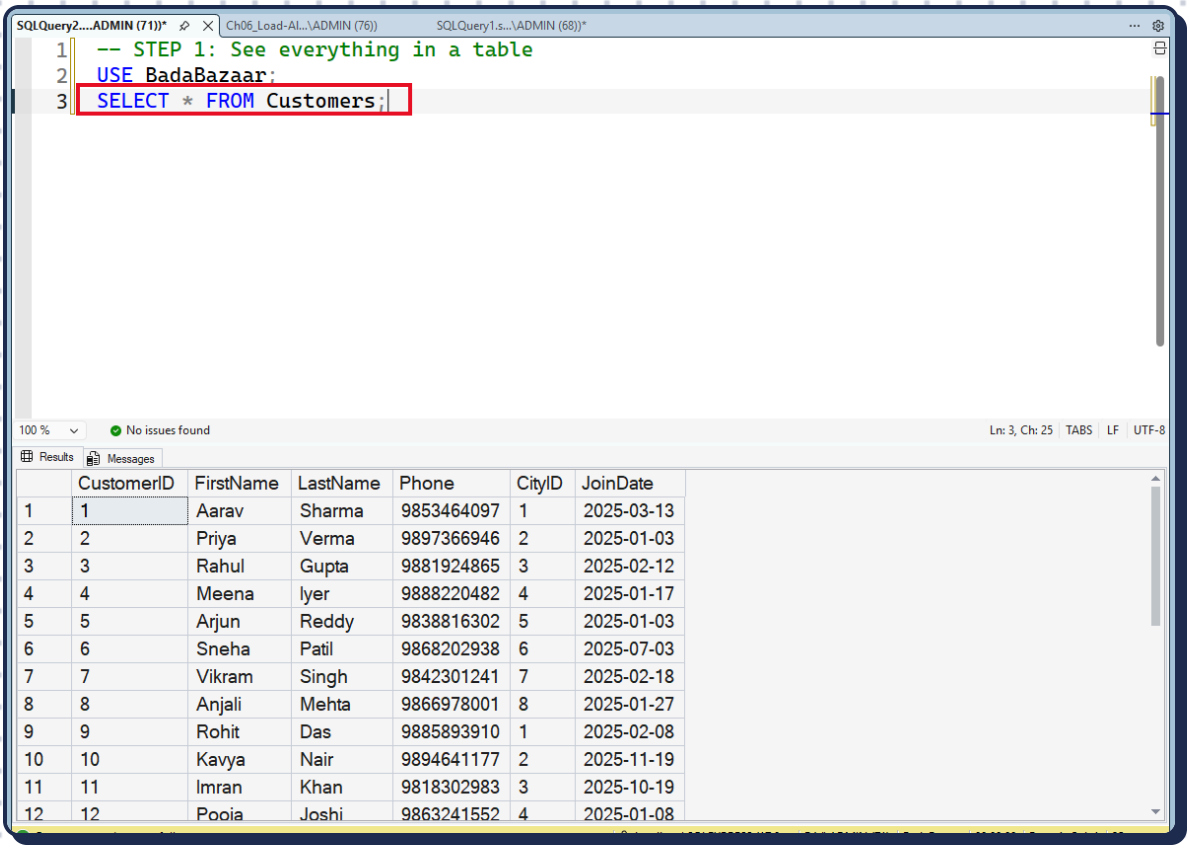
1. TYPE THIS
Open a New Query and type (or copy) the code below.

2. ACTION!
Select the lines and press **F5** (or click **Execute**).

3. CUT! CHECK IT
You see **25 rows** and 6 columns: CustomerID to JoinDate.

Ch07_WHERE-Is-My-Data.sql ×

```
1  -- Q: How do I see everything in a table?
2  -- A: SELECT * (star = all columns)
3  SELECT * FROM Customers;
```



	CustomerID	FirstName	LastName	Phone	CityID	JoinDate
1	1	Aarav	Sharma	9853464097	1	2025-03-13
2	2	Priya	Verma	9897366946	2	2025-01-03
3	3	Rahul	Gupta	9881924865	3	2025-02-12
4	4	Meena	Iyer	9888220482	4	2025-01-17
5	5	Arjun	Reddy	9838816302	5	2025-01-03
6	6	Sneha	Patil	9868202938	6	2025-07-03
7	7	Vikram	Singh	9842301241	7	2025-02-18
8	8	Anjali	Mehta	9866978001	8	2025-01-27
9	9	Rohit	Das	9885893910	1	2025-02-08
10	10	Kavya	Nair	9894641177	2	2025-11-19
11	11	Imran	Khan	9818302983	3	2025-10-19
12	12	Pooja	Joshi	9863241552	4	2025-01-08

WHAT THE RESULT SAYS

1. `*` brought **all 6 columns**
2. The bottom bar shows how many rows came back
3. Nothing changed in the table. SELECT only **reads**

DID YOU KNOW?
SELECT is the most used word in SQL. Almost every query you write at work starts with it.

LIGHTS · CAMERA · F5! 7.3 STEP 3 OF 8

Filter with WHERE: products above Rs 200

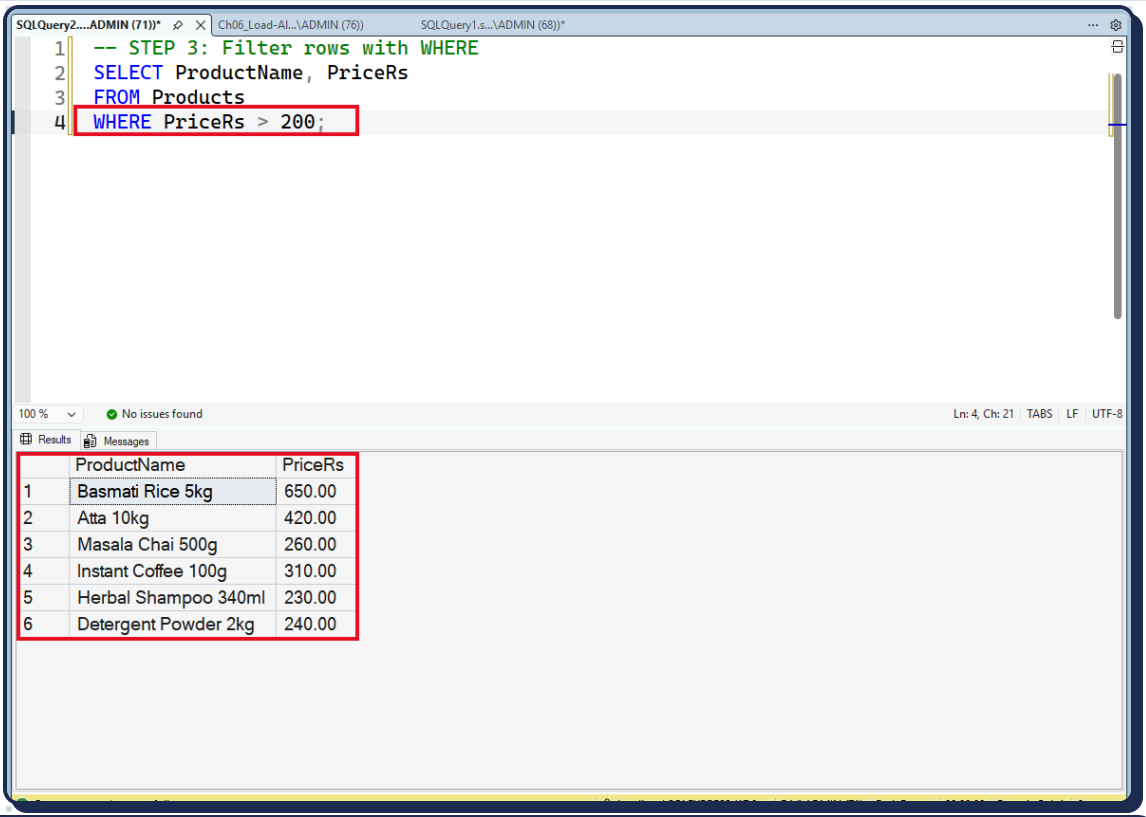
1. TYPE THIS
Open a New Query and type (or copy) the code below.

2. ACTION!
Select the lines and press **F5** (or click **Execute**).

3. CUT! CHECK IT
6 rows, from Basmati Rice (650) to Detergent (240). All above Rs 200.

Ch07_WHERE-Is-My-Data.sql ×

```
1  -- Q: How do I filter rows?
2  -- A: WHERE + a condition ( =  >  <  ≥  ≤  <> )
3  SELECT ProductName, PriceRs
4  FROM Products
5  WHERE PriceRs > 200;
```



WHAT THE RESULT SAYS

1. Only rows where PriceRs > 200 came back
2. Change 200 to 500 and press F5 again. Play with it!
3. Numbers need **no quotes**: 200, not '200'

RAJ SIR'S PRO TIP
Signs you can use: = equal, <> not equal, > < ≥ ≤.

YOUR TURN
Show products that cost **less than Rs 50**.

Answer: WHERE PriceRs < 50

LIGHTS · CAMERA · F5! 10.1 STEP 1 OF 6

INNER JOIN: names next to orders

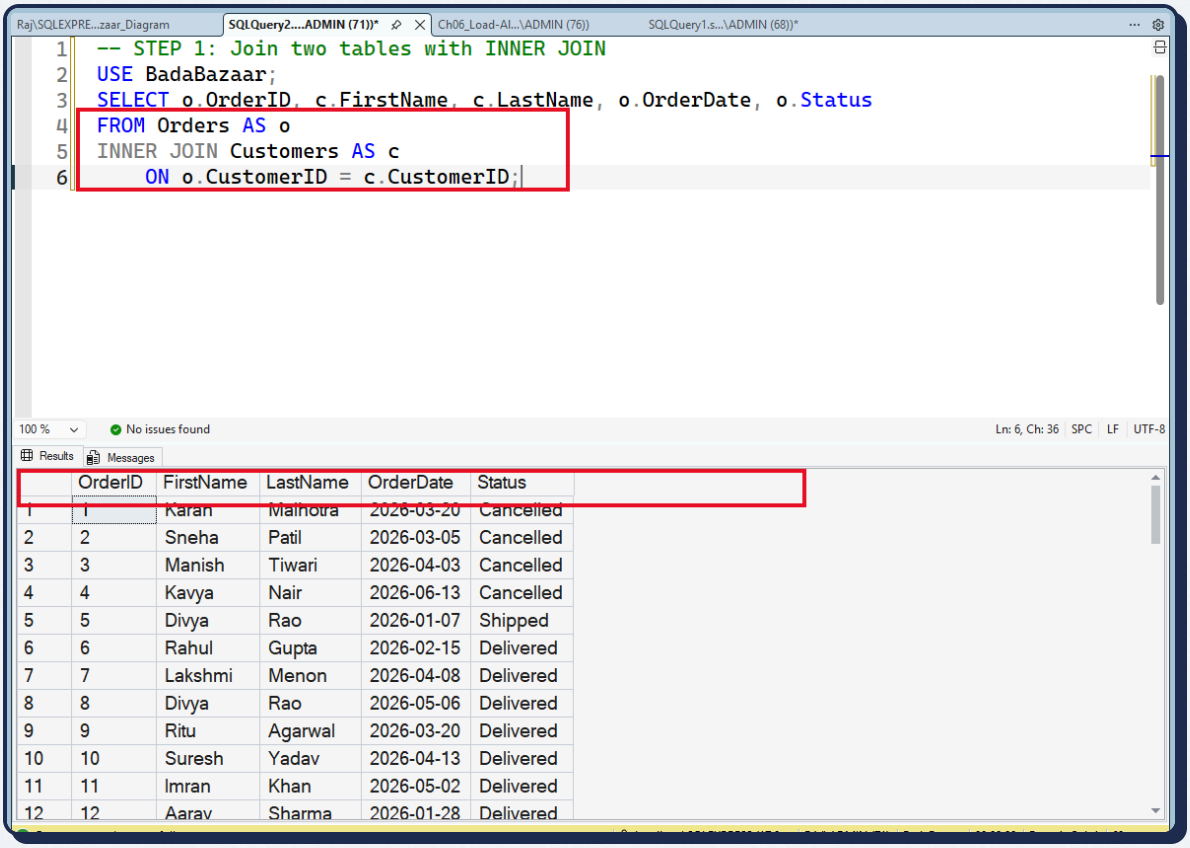
Ch10_Combine-Tables-with-JOIN.sql ×

```sql
-- STEP 1: Join two tables with INNER JOIN
USE BadaBazaar;
SELECT o.OrderID, c.FirstName, c.LastName, o.OrderDate, o.Status
FROM Orders AS o
INNER JOIN Customers AS c
    ON o.CustomerID = c.CustomerID;
```

1. TYPE THIS
Open a New Query and type (or copy) the code below.

2. ACTION!
Select the lines and press **F5** (or click **Execute**).

3. CUT! CHECK IT
60 rows: every order now shows the customer name.



	OrderID	FirstName	LastName	OrderDate	Status
1	1	Karan	Malhotra	2026-03-20	Cancelled
2	2	Sneha	Patil	2026-03-05	Cancelled
3	3	Manish	Tiwari	2026-04-03	Cancelled
4	4	Kavya	Nair	2026-06-13	Cancelled
5	5	Divya	Rao	2026-01-07	Shipped
6	6	Rahul	Gupta	2026-02-15	Delivered
7	7	Lakshmi	Menon	2026-04-08	Delivered
8	8	Divya	Rao	2026-05-06	Delivered
9	9	Ritu	Agarwal	2026-03-20	Delivered
10	10	Suresh	Yadav	2026-04-13	Delivered
11	11	Imran	Khan	2026-05-02	Delivered
12	12	Aarav	Sharma	2026-01-28	Delivered

WHAT THE RESULT SAYS

1. ON tells SQL which columns match
2. Always join on the **key** columns

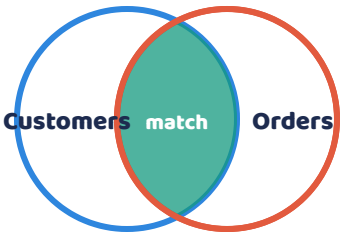
10.4 PICTURE IT

INNER vs LEFT, in one picture



Main list poori chahiye? LEFT JOIN. Sirf match? INNER JOIN.
Need the full main list? LEFT JOIN. Only matches? INNER JOIN.

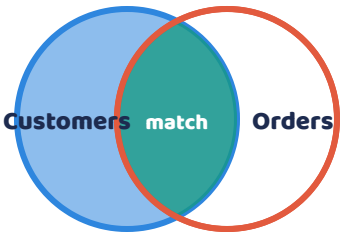
INNER JOIN



Only customers WITH orders

19 customers

LEFT JOIN



ALL customers (no order = NULL)

25 customers (6 with NULL)

1. **Green** part = customers who have orders (a match)
2. **INNER JOIN** keeps only the green part
3. **LEFT JOIN** keeps the whole blue circle. No match = **NULL**

DID YOU KNOW?
RIGHT JOIN keeps all rows of the **right** table. FULL JOIN keeps **both**. Most people just use LEFT.

DID YOU KNOW? Dates are safest as `'YYYY-MM-DD'`, for example `'2026-05-01'`.

CHEAT SHEET CHAPTER 10 ON 1 PAGE

JOINs on one page

`FROM A JOIN B ON A.id = B.id`
Inner join: only matches

`FROM A LEFT JOIN B ON ...`
Keep all rows of A

`FROM Orders AS o`
Table alias

`o.OrderID, c.FirstName`
Use the alias

`JOIN B ON ... JOIN C ON ...`
3 or more tables

`WHERE B.id IS NULL`
Rows with no match

`Quantity * PriceRs AS Total`
Maths in SELECT

`... GROUP BY ci.CityName`
JOIN + totals

`JOIN = INNER JOIN`
Same thing

`RIGHT JOIN / FULL JOIN`
All right rows / all rows

`Msg 209`
Add the table alias

`FROM > JOIN ON > WHERE > GROUP BY > ORDER BY`
Order to write

THE PATTERN `FROM A JOIN B ON A.key = B.key`



Isse photo kheench ke wallpaper bana lo!
Take a photo of this and make it your wallpaper!

QUICK QUIZ Msg 209 is fixed by...? A table alias

LIGHTS · CAMERA · F5! 11.1 STEP 1 OF 7

CREATE VIEW vw_SalesLines

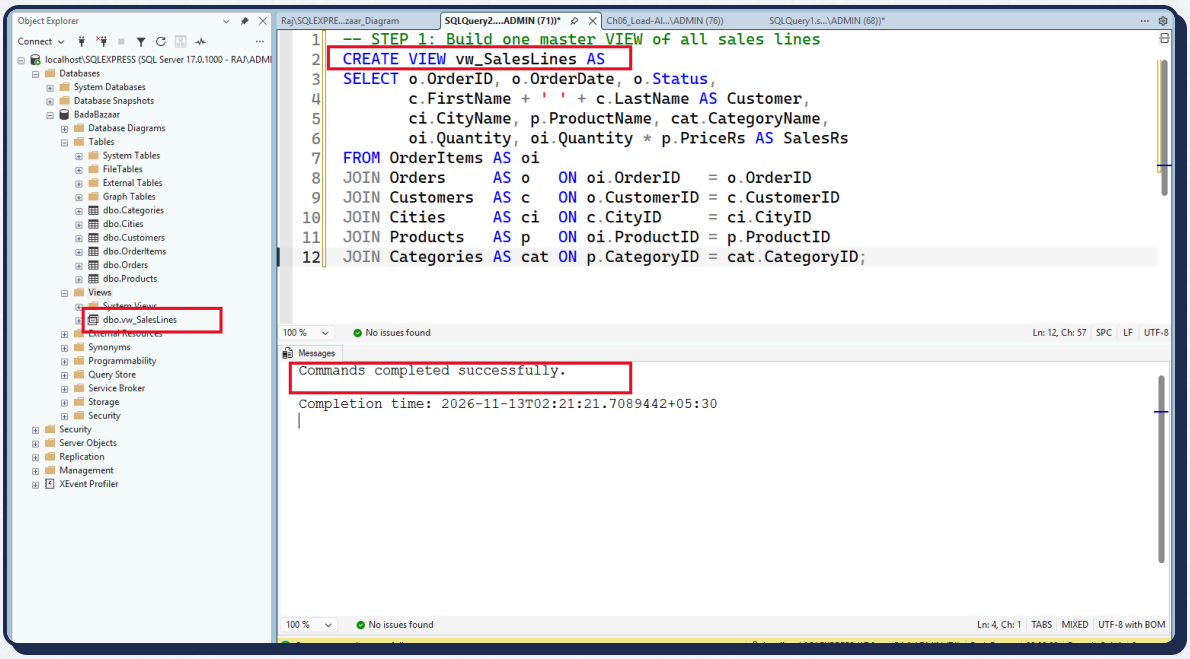
Ch11_Mini-Project.sql ×

```sql
-- STEP 1: Build one master VIEW of all sales lines
CREATE VIEW vw_SalesLines AS
SELECT o.OrderID, o.OrderDate, o.Status,
       c.FirstName + ' ' + c.LastName AS Customer,
       ci.CityName, p.ProductName, cat.CategoryName,
       oi.Quantity, oi.Quantity * p.PriceRs AS SalesRs
FROM OrderItems AS oi
JOIN Orders     AS o   ON oi.OrderID   = o.OrderID
JOIN Customers  AS c   ON o.CustomerID = c.CustomerID
JOIN Cities     AS ci  ON c.CityID     = ci.CityID
JOIN Products   AS p   ON oi.ProductID = p.ProductID
JOIN Categories AS cat ON p.CategoryID = cat.CategoryID;
```

1. TYPE THIS
Open a New Query and type (or copy) the code below.

2. ACTION!
Select the lines and press **F5** (or click **Execute**).

3. CUT! CHECK IT
Commands completed successfully. Refresh **Views** in Object Explorer: vw_SalesLines is there.

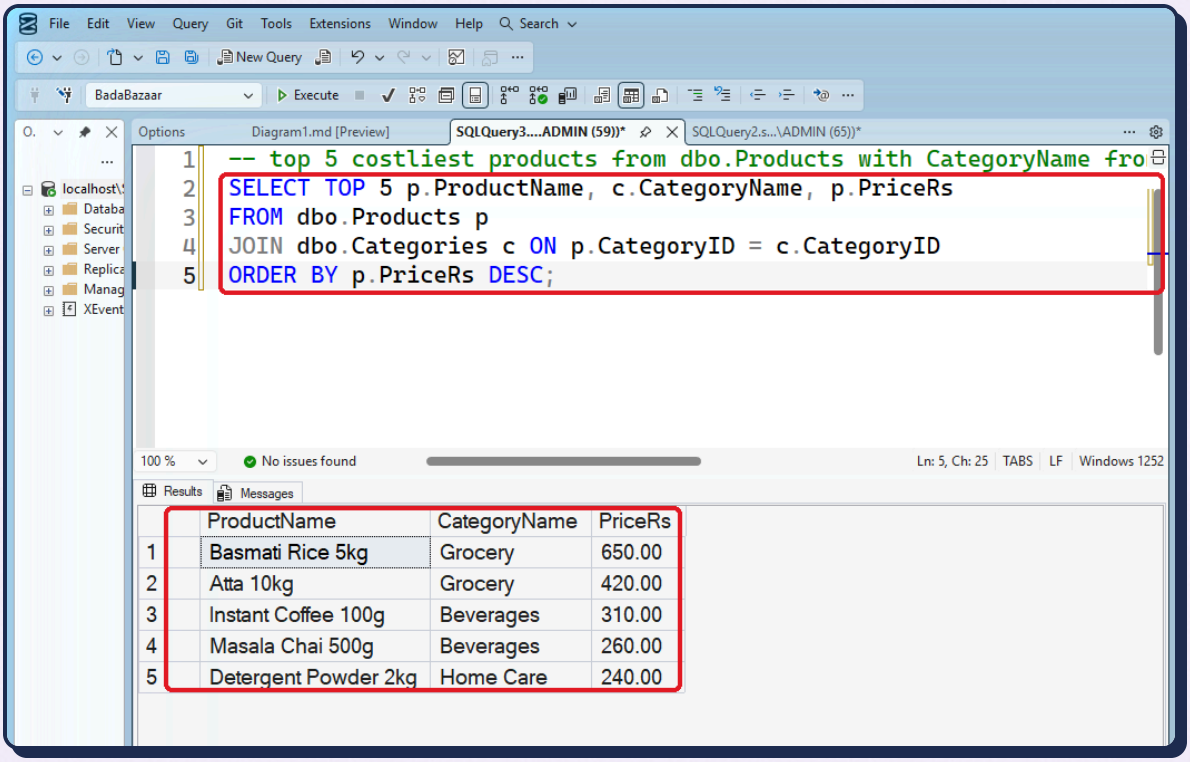


WHAT THE RESULT SAYS

1. Press **Ctrl + Shift + R** so IntelliSense knows the new view
2. FirstName + ' ' + LastName joins text into one name

PROMPT PANDIT CORNER THE RESULT

Did Copilot get it right?



1. I typed only SELECT, FROM, JOIN, ORDER
2. Copilot filled the rest with Tab
3. Top 5: Basmati Rice Rs 650 first

RACE CARD



By hand **2 min**



With Copilot **20 sec**

VERDICT: WRONG FIRST, THEN FIXED

First guess used wrong column names. A specific comment fixed it. Lesson: name your tables and columns.



Copilot ne likha, maine F5 dabaya... par pehle padha!
Copilot wrote it, I pressed F5... but I read it first!

END CREDITS GRAND AUDITION

The Grand Audition: 139 interview questions

Every interview question from the 12 films, with a short sample answer. Your final rehearsal.



Main interview mein yahi sawaal poochhti hoon. Ab tum taiyaar ho!

I ask exactly these questions in interviews. Now you are ready!

HOW TO PRACTISE

1. Read the question. **Cover the answer** with your hand
2. Say your answer **out loud**, like in a real interview
3. Check. Tick it if right. Circle it if wrong
4. Next day, redo **only the circled** ones

THE 1-MINUTE ANSWER FORMULA

What → Say what it is in one line

Why → Why we use it

Example → A Bada Bazaar example

Watch out → One mistake to avoid



Har sawaal ka jawab Bada Bazaar ke example se do. Interviewer ko kahani yaad rehti hai!

Answer every question with a Bada Bazaar example. Interviewers remember stories!

MOCK INTERVIEW IDEA

Pick 10 random questions. Ask a friend to read them to you. Answer each in **under 1 minute**. Swap and repeat.



Chai thandi hone se pehle report ready. Naya record!

Report ready before the chai went cold. New record!