**Reusable Prompt (paste this in a new chat)**

You are my code generator.  
I will paste a **SQL Server SELECT** (from SSMS) that lists the columns for a source table.  
From that, do the following **exactly**:

**What to output (2 things, in this order)**

1. **MySQL CREATE TABLE** for the destination table.
2. **PHP script** that loads from MSSQL → MySQL with **incremental logic** and **upsert**.

**Naming & constants**

* Destination table name pattern: scada\_puducherry\_p2\_<source\_table\_name\_lowercase>.  
  Example: for [dbo].[VFD\_PARAMETER\_1] → scada\_puducherry\_p2\_vfd\_parameter\_1.
* Use these constants inside every row:
  + site\_id = 46
  + site\_name = 'Puducherry Plant - II'
  + plant\_id = 59
* Add these 3 columns with **first letter uppercase** exactly:
  + DateTime DATETIME NOT NULL
  + Date DATE NOT NULL
  + Time TIME NOT NULL
* Keep cell\_id as INT NULL (lowercase with underscore).

**Column mapping rules**

* Read columns from my SELECT and **alias** any MSSQL names with spaces/hyphens to clean PHP array keys (e.g., [BC-10A HOURS] → BC\_10A\_HOURS).
* In MySQL, convert those to **snake\_case lowercase** (e.g., bc\_10a\_hours).
* Data types:
  + If I explicitly say “these are integers,” make them INT.
  + Otherwise, for numeric measurements (currents/frequencies/voltages etc.) use DECIMAL(10,3).
  + If unsure, use DECIMAL(10,3) for numeric metrics.
* Include indexes:
  + PRIMARY KEY (id BIGINT UNSIGNED AUTO\_INCREMENT)
  + UNIQUE KEY uniq\_dt\_cell (DateTime, cell\_id)
  + KEY idx\_date (Date)
  + KEY idx\_cell\_id (cell\_id)
* Also include site\_id, site\_name VARCHAR(150), plant\_id, created\_at/updated\_at timestamps.

**PHP loader requirements**

* **Connections** (use these placeholders exactly so I can swap easily):
  + MSSQL (PDO):
  + $dsn = "sqlsrv:Server=DESKTOP-L6BOH4H\\MSSQL1;Database=<MSSQL\_DB>;TrustServerCertificate=true";
  + $conn = new PDO($dsn, "SA", "TECH7");
  + MySQL (MySQLi):
  + $link3 = new mysqli('zigmaglobal.in', 'zigmaglobal\_new\_user', 'Bq3[1PYLs6q2', 'zigmaglo\_erp');
* date\_default\_timezone\_set("Asia/Calcutta");
* ini\_set('max\_execution\_time', 1800);
* **Incremental logic**:
  + If MySQL table is **empty** → FULL LOAD (select all from MSSQL).
  + Else → find MAX(cell\_id) in MySQL and only fetch MSSQL rows with [CELL\_ID] > :maxCell.
* **MSSQL SELECT**: use my pasted columns and **alias** each to underscore format for PHP keys (e.g., AS BC\_10A\_HOURS).
* **MySQL insert**:
  + Use **prepared statement** with INSERT ... ON DUPLICATE KEY UPDATE.
  + Insert values for: DateTime, Date, Time, cell\_id, all mapped metrics, then site\_id, site\_name, plant\_id.
  + Wrap inserts in a **transaction** for performance.
  + Build the bind\_param **types string** to exactly match the number of placeholders:
    - DateTime, Date, Time → s s s
    - cell\_id → i
    - Each INT metric → i
    - Each DECIMAL metric → d
    - site\_id → i, site\_name → s, plant\_id → i
  + (Optional) add a guard:
  + if (strlen($types) !== count($vals)) { die("Type/param mismatch"); }
* **Idempotency**: rely on UNIQUE(DateTime, cell\_id) and ON DUPLICATE KEY UPDATE to upsert.
* **Helpers**:
  + Provide ni() to clean/parse INT (return null if empty/non-numeric).
  + Provide nf() to clean/parse DECIMAL (return null if empty/non-numeric).
  + Provide bindParams() that uses references for bind\_param.

**Output formatting**

* First: a single SQL block with the final **CREATE TABLE**.
* Then: one complete PHP file (single block) that I can save and run.
* Do **not** add extra commentary between blocks.

**Example input I will paste after this prompt**

I will paste a block like this (example):

SELECT [DateAndTime]

,[CELL\_ID]

,[BC-10A HOURS]

,[BC-10A MINS]

,[BC-17A HOURS]

,[BC-17A MINS]

FROM [ZIGMA\_EQUIPMENTS].[dbo].[MOTOR\_RUN\_HOURS\_EXAMPLE]

If I add a note like “all these are integers,” type them as INT.  
Otherwise default numeric measurements to DECIMAL(10,3).

**Finally**

After I paste my SELECT, **infer**:

* Destination table name from the source table name,
* MySQL column names and types (per rules),
* Correct bind\_param types string length,
* And produce both the **CREATE TABLE** and **PHP** code per the specs above.

**Now wait for my SELECT.**