



OUTLINE

2026

**WITH TAWANA
, BUILD SKILLS,
CHANGE YOUR FUTURE**



TAWANA
TECHNOLOGY



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MySQL

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MySQL

Week 01: introduction to databases & mysql

1. Introduction to databases and types of databases.
2. Full introduction of mysql and its history.
3. Installation of mysql, workbench, and phpmyadmin.
4. Introduction to sql language (ddl, dml, dcl, tcl).
5. Practice file: creating first database and table.

Week 02: tables and data operations

1. Understanding table structure and data types.
2. Introduction to constraints (primary, foreign, unique, not null).
3. Inserting data into tables using `insert into`.
4. Retrieving data with `select` and `where`.
5. Weekly quiz or practice file – crud operations (create, read, update, delete).

Week 03: advanced data retrieval

1. Filtering data using `and`, `or`, `in`, `between`, and `like`.
2. Sorting and limiting results using `order by` and `limit`.
3. Using aggregate functions – `count`, `sum`, `avg`, `min`, `max`.
4. Grouping data with `group by` and `having`.
5. Weekly quiz or practice file – report generation with aggregates.

Week 04: relationships and joins

1. Understanding relational database concepts.
2. Primary key and foreign key relationships.
3. Different types of joins – inner, left, right, full.
4. Working with multiple tables and aliases.
5. Weekly quiz or practice file – building student-course relationships.



Week 05: database design & normalization

1. Database design principles and entity relationship diagrams (erd).
2. Normalization – 1nf, 2nf, 3nf explained with examples.
3. Creating views for simplified data access.
4. Subqueries and nested select statements.
5. Weekly quiz or practice file – designing a multi-table database.

Week 06: stored procedures, functions & triggers

1. Introduction to stored procedures – creation and execution.
2. Writing mysql functions for custom operations.
3. Understanding triggers and automation in databases.
4. Using variables and conditionals in sql.
5. Weekly quiz or practice file – automate inserts with triggers.

Week 07: security, users & backup

1. Creating users and managing privileges.
2. Granting and revoking access rights.
3. Backup and restore databases using mysqldump.
4. Introduction to transactions and rollbacks.
5. Weekly quiz or practice file – create a safe user with limited permissions.

Week 08: optimization, integration & final project

1. Introduction to indexes and query optimization.
2. Connecting mysql with php / laravel.
3. Introduction to triggers, events, and performance monitoring.
4. Final project practice file – *create a mini “school management system” database.*
5. Final exam or project presentation on tawana website.



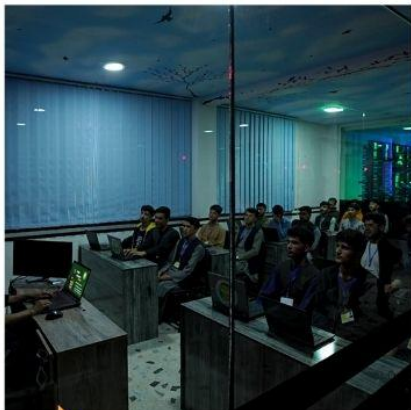
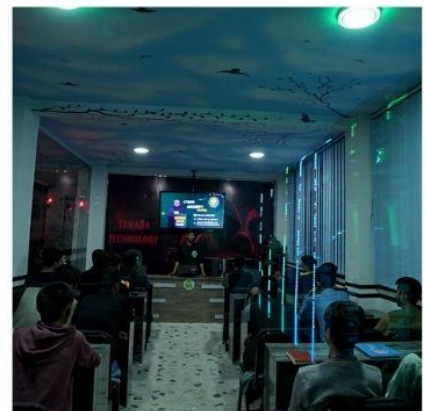
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Tawana

Best Technology center
2026



Tawana: The Key to the World of Technology

STUDENT FEEDBACK

Our students' opinions about
Tawana Technology



MOHAMMAD SHARIF BAKHTYARY

"Tawana Technology is a trusted institute with a strong background in technology, offering advanced curricula and modern methods—especially in cyber—to help learners enhance their skills."

Datacenter Specialist at UST
Global



TAWAB FAYAZI FORMER

"Tawana Technology is a leading institute for learning technology. Its students excel in job markets and competitions locally and internationally. I highly recommend it to anyone eager to grow their skills."

I.T DIRECTOR OF AFGHANISTAN
INDEPENDENT HUMAN
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SUHRAB TOTAKHAIL

"Tawana Technology is a leading Center for learning technology. Its students excel in job markets and competitions locally and internationally. I highly recommend it to anyone eager to grow their skills."

IT ANALYST ETISALAT
AFGHANISTAN



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Presented By :

Tawana team