

# Database Project – Test Cases

Project: Database Project (D1 – Repository Pattern)

Database: MySQL

Language: Python

## TC\_1 – Application startup

Verify database initialization and application startup.

Step	Action	Expected Result
1	Configure database in config.yaml	Configuration is loaded
2	Run init_db.sql	Tables and views created
3	Run python main.py	Application starts without errors

## TC\_2 – Data import

Import data from CSV, JSON and XML files.

Step	Action	Expected Result
1	Import customers from CSV	Customers inserted
2	Import products from JSON	Products inserted
3	Import stock from XML	Stock inserted

## TC\_3 – Transaction

Create order across multiple tables using transaction.

Step	Action	Expected Result
1	Create order	Order created
2	Insert order items	Items linked to order
3	Update stock	Stock decreased
4	Trigger error	Transaction rolled back

## TC\_4 – Reports

Generate aggregated reports using database views.

Step	Action	Expected Result
1	Run report service	Report generated
2	Query database views	Aggregated data returned