Section 2 - Domains & Configuration

Section 2: Domains & Configuration (Maximo)

Q1. What are Domains in Maximo?

Answer:

Domains in Maximo define the set of acceptable values for a field (attribute). They enforce data consistency across the application. Instead of entering free text, users select from predefined values.

Types of Domains:

1. ALN Domain Alphanumeric values (e.g., Status = ACTIVE, INACTIVE).

2. NUMERIC Domain Numeric values (e.g., Priority = 15).

3. SYNONYM Domain Maps synonyms to internal values (e.g., WAPPR = Waiting for Approval, synonym of APPR).

4. CROSSOVER Domain Copies values from one object/attribute to another (e.g., copying vendor address from COMPANY table to PO table).

5. TABLE Domain Pulls values from another Maximo table (dynamic dropdown).

Scenario Example:

In one project, I configured a synonym domain for Work Order status to ensure business users could use readable names like Awaiting Approval while internally it mapped to WAPPR. This ensured consistency and reporting accuracy.

Q2. What is the difference between ALN and SYNONYM domain?

Answer:

ALN (Alphanumeric) Stores simple text values (e.g., Yes/No, High/Medium/Low).

SYNONYM Used for status handling. It allows multiple synonyms for the same value while keeping one internal value.

Example:

ALN: PRIORITY domain with values (1, 2, 3).

SYNONYM: WORKORDER status domain with values (APPR, WAPPR, COMP).

Q3. Explain CROSSOVER Domain with an example.

Answer:

Crossover domains allow automatic copying of field values from one object to another.

Example:

If a Purchase Order (PO) is created for a company, the address can automatically be copied from the COMPANY object into the PO header.

Steps:

1. Create a Crossover Domain (e.g., POADDR).

2. Define Source Object = COMPANY, Source Attribute = ADDRESS.

3. Apply the domain to the PO table field.

4. When user selects company, address auto-fills.

Scenario Example:

I configured a crossover domain for copying Asset Location details into Work Orders automatically. This reduced manual entry errors and saved time.

Q4. What is the use of a TABLE Domain?

Answer:

A TABLE domain dynamically fetches values from another Maximo table.

Example:

Create a TABLE domain to pull values from the ASSET table.

Users can then pick Asset Numbers directly in a field (dropdown) without retyping.

Scenario Example:

In my last project, I used a TABLE domain to fetch active locations from the LOCATIONS table while creating Work Orders. This ensured users could only select valid, active locations.

Q5. Can we restrict domain values based on conditions?

Answer:

Yes, using Conditional Expressions.

Example:

Restrict STATUS domain values for Work Orders.

If WO type = EMERGENCY Only allow APPR, COMP.

Implementation:

Create a condition (:wotype = 'EMERGENCY').

Apply it in the Domain Value Where Clause.

Q6. How do you add a new status in Maximo?

Answer:

Statuses are controlled via the SYNONYM Domain.

Steps:

1. Go to Domains Find SYNONYM Domain for STATUS.

2. Add a new row with Value (internal name) and Description (user-friendly).

3. Mark if its Internal Only or Default.

4. Save & Apply.

Scenario Example:

I added a new custom status REVIEW for Work Orders to track review before approval. This was implemented in the SYNONYM domain.

Q7. What happens if we delete a domain value?

Answer:

If the value is already used in records, deletion will cause issues.

Best practice Deactivate (inactive flag) instead of deleting.

Q8. Difference between List Tab and Domain values?

Answer:

List Tab = Displays all valid values from a TABLE domain (fetched from database).

Domain values = Static predefined values.

Q9. What is the purpose of ALNDOMAIN and SYNONYMDOMAIN tables?

Answer:

ALNDOMAIN Stores ALN domain values.

SYNONYMDOMAIN Stores synonym domain values (statuses, internal synonyms).

Example SQL:

SELECT * FROM SYNONYMDOMAIN WHERE DOMAINID = 'WOSTATUS';

Q10. Have you customized a domain using Database Configuration?

Answer:

Yes, I customized the WORKTYPE domain to add new work types for maintenance. I used Database Configuration to add a new ALN domain and linked it to the WORKORDER object attribute. After applying configuration changes, I deployed it successfully.

That completes Section 2: Domains & Configuration (10 Key Q&A).

Each is explained with examples and interview-style scenarios.