

## ✓ HIGHLIGHTS OF WHAT YOU'VE ACCOMPLISHED

### 1. Zones Table Enhanced for Public Suffix List:

- zone\_tld\_name now captures complex suffixes like co.uk, ac.jp, gov.br, etc.
- Lowercase normalization is enforced via trigger.

### 2. Domain-Zone Association:

- Each domain can now be matched to its correct zone automatically with the get\_matching\_zone\_id() function.
- A trigger (trg\_set\_domain\_zone) handles this logic during INSERT/UPDATE.

### 3. Consistent Lowercasing:

- Applied across all key name fields (domains, nameservers, emails, IP names) to prevent uniqueness conflicts or inconsistent queries.

### 4. Event + Link + Remark + Notice Abstraction:

- Clean handling of RDAP-style metadata like remarks, links, notices, and events using generic object\_type and object\_id.

### 5. Relational Role Modeling:

- roles used to map entities, domains, nameservers — flexible and scalable.

### 6. Future DNSSEC & DANE Support:

- TLSA records + Secure DNS are properly broken out for full validation and expansion.