Salesforce Field & Validation Rule Analyzer

# Salesforce Field & Validation Rule Analyzer  
  
## 📘 Overview  
  
This project analyzes Salesforce metadata to extract cross-object references used in:  
- Field-level formula fields  
- Validation rules  
  
It generates an Excel workbook (`combined\_analysis.xlsx`) with per-object breakdowns and a global summary.

## 📁 Project Structure  
  
```  
├── Field\_Validation\_Rule\_By\_Object\_Analyzer.py # Main script  
├── config.properties # Salesforce credentials  
├── combined\_input.json # Metadata config  
├── combined\_analysis.xlsx # Output report (generated)  
```

## ⚙️ Setup  
  
### 1. Install Dependencies  
  
```bash  
pip install -r requirements.txt  
```  
  
### 2. Configure Salesforce Credentials  
  
Edit `config.properties` with your Salesforce credentials:  
  
```properties  
username=your\_username  
password=your\_password  
security\_token=your\_token  
domain=login  
```

### 3. Configure Metadata Targets  
  
Update `combined\_input.json` to define:  
- Objects to scan for validation rules  
- Fields to scan for formula dependencies

### 4. Run the Script  
  
```bash  
python Field\_Validation\_Rule\_By\_Object\_Analyzer.py  
```

## ✅ Output  
  
- One Excel sheet per object with all related formulas and rules  
- Type = `Field` or `Validation Rule`  
- Referenced objects and field stats  
- Global and object-level summaries

## 📄 License  
  
Internal use only. Secure your credentials and use with metadata access enabled.