**Generate Entity Classes from Database Tables**

1. Download/Install JDK-11 from Oracle Website
2. Download/Install Eclipse for Web Development
3. Download/Install Apache TomEE Plume 8.0.8
4. Download/Install Postgres Database
5. Execute “Employee.sql” script into Postgres PgAdmin
6. Download Postgres Driver Jar Library
7. Add Postgres Driver Jar into Apache TomEE Plume 8.0.8 Library
8. Add tomee.xml data source configuration file
9. Create Web Project “Employee”
10. Add Postgres Driver Jar into Project Lib Folder
11. Add META-INF folder with “persistence.xml” JPA configuration
12. Create Code Generator Package
13. Read Postgres Database Metadata
14. Generate Entity classes for each table
15. Generate Instance variables/methods for each class
16. Add @Entity and @Table on each class
17. Add @Column annotation on each instance variable
18. Add @Id & @GeneratedValue on primary instance variable
19. Fix “Many to One” Associations between classes
20. Add @JoinColumn and @ManyToOne “many to one” relations
21. Add “One to Many” relations between classes
22. Add @OneToMany on “One to Many” instance variables
23. Fix Inheritance between classes
24. Add @PrimaryKeyJoinColumn and @Inheritance on parent/child classes
25. Create “EmployeeServlet” Servlet for Endpoint and EJB injection
26. Create “EmployeeBean” EJB for Database Transaction and Persistence Context Injection
27. Create Manager Object with Parent (Employee)/Many to One(Address)/One to Many(Certificate)
28. Use Entity Manager to save Employee Object