Comp508

Assignment 2024

Part A:

Task1 Identify Entities & Develop Business Rules:

**Each ENTITY\_1 May/Must Relationship\_Verb\_Phrase number ENTITY\_2**

1. Each **Road** Must be Classified as one **Category**
2. Each **Category** may Classify many **Roads**.
3. Each **Road** May Contain one or more **Road.**
4. Each **Road** May Contain in many other **Roads.**
5. Each **Road** Must Start at only one **Location.**
6. Each **Location** May be the starting point for many **Roads.**
7. Each **Road** Must end at only one **Location.**
8. Each **Location** May be the endpoint for many **Roads.**
9. Each **Role** May be assigned to many **Staff.**
10. Each **Staff Member** May be assigned to only one **Role.**
11. Each **Role - History** Must assign only one **Staff.**
12. Each **Staff Member** May have many **Role - Histories.**
13. Each **Staff** May work on many **Projects.**
14. Each **Project** Must have many **Staff** working on it.
15. Each **Role - History** Must be assigned to only one **Project.**
16. Each **Project** May have many **Role - Histories** assigned to it.
17. Each **Role** May have many **Role - Histories.**
18. Each **Role – History** Must belong to only one **Role.**
19. Each **Project** Must involve at least one **Road.**
20. Each **Road** May be involved in many **Projects.**
21. Each **Contractor** May own many **Contracts.**
22. Each **Contract** Must belong to only one **Contractor.**
23. Each **Contract** Must cover only one **Project.**
24. Each **Project** May be covered by many **Contracts.**
25. Each **Staff Member** May manage many **Contracts.**
26. Each **Contract** Must be managed by one **Staff Member.**
27. Each **Contract** may manage many **Role -Histories.**
28. Each **Role - History** must be managed by one **Contract.**