

## SQL DBA Course PROJECT.

Below is the source database backup:

[https://drive.google.com/file/d/18NqG\\_ilhptVfOmbaJs-4lb2CZHV2ithG/view?usp=sharing](https://drive.google.com/file/d/18NqG_ilhptVfOmbaJs-4lb2CZHV2ithG/view?usp=sharing)

You need to restore above database backup, perform the below operations and send me your solutions :

### Phase 1: ROUTINE SQL DBA Activities

- 1 How do you Auditing Login Failures? Solutions?
- 2 Monitoring Connectivity Issues, if any? Solutions?
- 3 Audit Long Running Queries & Query Tuning Operations?
- 4 How to Audit Memory Issues & Basic Level Solutions?
- 5 MSDTC and Remote Connection Issues : Repro Issue & Solutions
- 6 How do you Monitor Jobs? What Precautions you consider as a DBA?
- 7 How do you monitor HA & DR [Replication, Log Shipping & Mirroring]?
- 8 How do you Audit Backups? What verification strategy you follow?
- 9 How do you refresh a Database? What are the Precautions?
- 10 Do you prefer Object Refresh / Schema Refresh? Any Objectives?
- 11 Where do you Audit / Check Ad-hoc Dump Files? Any Cautions?
- 12 How do you identify Idle Sessions? How to get rid of these sessions?
- 13 How do your monitor Index Fragmentation? Database Integrity?
- 14 How do you reactively check for Deadlocks? Any Precautions?
- 15 How you monitor Server Health? Any Third Party / Native Tools you use?

### Phase 2: EMERGENCY SQL DBA Activities

- 1 What are your immediate steps as a DBA if a server is Down?
- 2 What are your immediate steps as a DBA if a Database is Down?
- 3 How do you resolve Table & Schema Missing Issues?
- 4 How do you resolve Data Synchronization Issues with Views?
- 5 How do you resolve Query Performance Issues?
- 6 How do you resolve Slow Database Response Issues?
- 7 How do you resolve Slow Replication / Log Shipping / Mirroring Issues?
- 8 What precautions you consider to ensure proper usage of Resources?
- 9 Have you done any Page Restores? Where do you check Corrupted Pages?
- 10 Have you used DTA Tool? How do you decide between Partitions & Indexes?
- 11 What parameters you consider to decide a HA & DR Plan?
- 12 How to add a Hot-CPU? Any side effects? If so, how you resolve them?
- 13 How to configure Fail-over Clusters in SQL Server and Active Directory?
- 14 How to configure Always-On Availability Groups? Any Precautions?
- 15 When to use Contained Database? Any issues you face while DB Migrations?