all the helper methods have been implemented with comprehensive functionality:

1. Resource Management:
   * **updateTenantFeatures**: Updates features based on plan changes
   * **getResourceUsage**: Tracks resource usage from Redis cache
   * **getResourceUtilization**: Calculates resource usage percentages
   * **getTenantResources**: Gets both storage and database resources
2. Analytics & Metrics:
   * **getUserCount**: Gets total users for a tenant
   * **getActivityMetrics**: Tracks logins, API calls, and errors
   * **getBillingMetrics**: Gets billing status and history
   * **getWarningFlags**: Monitors for potential issues
3. Backup & Restore:
   * **performRestore**: Handles tenant data restoration
   * **clearTenantCache**: Manages cache during restore
   * Transaction support for atomic operations
4. Database Operations:
   * **getDatabaseResources**: Gets resource usage by table
   * **getTableSize**: Gets PostgreSQL table sizes
   * Proper error handling and metrics
5. Integration Points:
   * Authentication service integration
   * API gateway integration
   * Error tracking integration
   * Resource access logging

The tenant service is now fully functional with:

* Comprehensive resource tracking
* Detailed analytics
* Health monitoring
* Backup/restore capabilities
* Proper error handling
* Performance optimization with caching
* Metrics for monitoring