**بسمه تعالی**



برنامه نویسی بانک اطلاعاتی SQL Server

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بررسی فعال سازی change tracking روی دیتابیس

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| SELECT CASE WHEN CHANGE\_TRACKING\_CURRENT\_VERSION() IS NULL THEN 'not enabled' ELSE 'enabled' end |

فعال سازی روی دیتابیس

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| ALTER DATABASE Fakhravari  SET CHANGE\_TRACKING = ON  (CHANGE\_RETENTION = 2 DAYS, AUTO\_CLEANUP = ON) |

* تغیرات را هر 2 روز پاک سازی میکند

فعال سازی روی جدول

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| ALTER TABLE [Table1]  ENABLE CHANGE\_TRACKING  WITH (TRACK\_COLUMNS\_UPDATED = ON) |
| EXEC sys.sp\_MSforeachtable N'ALTER TABLE ? ENABLE CHANGE\_TRACKING WITH(TRACK\_COLUMNS\_UPDATED = ON)' |
| * لیست جداولی که Change Tracking روی آنها فعال نیست   SELECT N'ALTER TABLE '+full\_table\_name+N' ENABLE CHANGE\_TRACKING'+CHAR(13)+CHAR(10)  FROM  (  SELECT QUOTENAME(s.name)+'.'+QUOTENAME(t.name) AS full\_table\_name, s.name AS schema\_name, t.name AS table\_name  FROM sys.key\_constraints x  JOIN sys.tables t ON x.parent\_object\_id=t.object\_id  LEFT JOIN sys.change\_tracking\_tables ON t.object\_id=sys.change\_tracking\_tables.object\_id  JOIN sys.schemas s ON t.schema\_id=s.schema\_id  WHERE x.[type]='PK' AND sys.change\_tracking\_tables.object\_id IS NULL AND t.name NOT IN ('sysdiagrams')    )y  ORDER BY schema\_name, table\_name |

غیر فعال سازی روی جدول

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| ALTER TABLE [TableName] DISABLE CHANGE\_TRACKING |
| * لیست جداولی که Change Tracking روی آنها فعال است   SELECT 'ALTER TABLE ['+S.name +'].['+OBJECT\_NAME(T.object\_id)+'] DISABLE CHANGE\_TRACKING' AS TableName  FROM sys.change\_tracking\_tables T  JOIN sys.tables TT ON TT.object\_id=T.object\_id  JOIN sys.schemas S ON S.schema\_id=TT.schema\_id |
| EXEC sys.sp\_MSforeachtable N'ALTER TABLE ? DISABLE CHANGE\_TRACKING' |

گرفتن مقدار آخرین تغیرات

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| SELECT CHANGE\_TRACKING\_CURRENT\_VERSION() AS InDatabse | **آخرین مقدار دیتابیس** |
| SELECT CHANGE\_TRACKING\_MIN\_VALID\_VERSION ((SELECT OBJECT\_ID('Warehouse.Afrad'))) AS InTableAfrad | **اولین مقدار** |
| SELECT CT.SYS\_CHANGE\_VERSION FROM CHANGETABLE( VERSION Warehouse.Afrad, (Id), (Id)) AS CT | **آخرین مقدار** |
| SELECT CT.\*, f.\*  FROM CHANGETABLE(CHANGES Warehouse.Afrad, 0) AS CT LEFT JOIN Warehouse.Afrad f ON f.Id=CT.Id | |

تشخیص داشتن تغیرات جدید

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| DECLARE @prevTrackingVersion INT=0;  DECLARE @trackedTables AS TABLE(name NVARCHAR(1000));  INSERT INTO @trackedTables(name)  SELECT '['+S.name+'].['+OBJECT\_NAME(T.object\_id)+']' AS TableName  FROM sys.change\_tracking\_tables T  JOIN sys.tables TT ON TT.object\_id=T.object\_id  JOIN sys.schemas S ON S.schema\_id=TT.schema\_id;  DECLARE @changedTables AS TABLE(name NVARCHAR(1000));  DECLARE @tableName NVARCHAR(1000);  WHILE EXISTS (SELECT TOP 1 \* FROM @trackedTables)  BEGIN  SET @tableName=(SELECT TOP 1 name FROM @trackedTables ORDER BY name ASC);  DECLARE @sql NVARCHAR(250);  DECLARE @retVal INT;  SET @sql='select @retVal = count(\*) from changetable(changes ' + @tableName+', ' + CAST(@prevTrackingVersion AS VARCHAR)+') as changedTable';  EXEC sp\_executesql @sql, N'@retVal int output', @retVal OUTPUT;  IF @retVal>0 BEGIN  INSERT INTO @changedTables(name)SELECT @tableName;  END;  DELETE FROM @trackedTables WHERE name=@tableName;  END;  SELECT \* FROM @changedTables; |