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SQL server



1. Database in single mode

1.1. Event / Symptoms

<< What problem has occurred>>

Database stuck in single mode.

<< What are the symptoms of problem>>

Application stop working as it supposed to work.

<<Screenshots of errors>>

1.2. System Details

1.3. Cause Identified

<<Description of Cause>>

SQL Server Database (XForce, Force_Configuration) stuck in single mode.

<<Step-by-Step investigation carried out>>

The X-Force Applications does not accept shutdown password of application.

Reports are not generating still status is completed.

Not able to log in Alarm Web.

1.4. Resolution

<<Description of Resolution. Steps carried out to resolve the issue>>

Run following query to solve the issue. Where Database Name is XForce or Force Configuration whichever is stuck in single mode.

```
USE master
GO
DECLARE @kill varchar(max) = '';
SELECT @kill = @kill + 'KILL ' + CONVERT(varchar(10), spid) + '; '
FROM master..sysprocesses
WHERE spid > 50 AND dbid = DB_ID('<Database Name>')
EXEC(@kill);

GO
SET DEADLOCK_PRIORITY HIGH
```

```
ALTER DATABASE [Database Name] SET MULTI_USER WITH NO_WAIT  
ALTER DATABASE [Database Name] SET MULTI_USER WITH ROLLBACK IMMEDIATE  
GO
```

1.5. Measures / Precautions

<<Measures & precautions to take to avoid any such problems in future >>

2. Database in Emergency mode

2.1 Event / Symptoms

<< What problem has occurred>>

Database stuck in Emergency mode

<< What are the symptoms of problem>>

Application stop working as it supposed to work.

<<Screenshots of errors>>

2.2 System Details

2.3 Cause Identified

<<Description of Cause>>

SQL Server Database (XForce, Force_Configuration) stuck in Emergency mode.

<<Step-by-Step investigation carried out>>

The X-Force Applications does not accept shutdown password of application.

Reports are not generating still status is completed.

Not able to log in Alarm Web

2.4 Resolution

<<Description of Resolution. Steps carried out to resolve the issue>>

Run following query to solve the issue. Where Database Name is XForce or Force Configuration whichever is stuck in Emergency mode.

```
ALTER DATABASE [Database Name] SET MULTI_USER WITH ROLLBACK IMMEDIATE
GO

OR

DBCC CHECKDB ([Database Name], REPAIR_ALLOW_DATA_LOSS)
GO
```

2.5 Measures / Precautions

<<Measures & precautions to take to avoid any such problems in future >>

3. Database in Recovery mode

3.1 Event / Symptoms

<< What problem has occurred>>

Database stuck in recovery mode.

<< What are the symptoms of problem>>

Application stop working as it supposed to work.

<<Screenshots of errors>>

3.2 System Details

3.3 Cause Identified

<<Description of Cause>>

SQL Server Database (XForce, Force_Configuration) stuck in Recovery mode.

<<Step-by-Step investigation carried out>>

The X-Force Applications does not accept shutdown password of application.

Reports are not generating still status is completed.

Not able to log in Alarm Web

Reasons Why SQL Database Is in Recovery Mode

The reason why SQL Server database is in recovery mode is as follows:

1. While restarting the SQL Server.
2. When the Database is Set Offline and Online.
3. Restoring the database from backup.

All the above reasons mentioned called Recovery process of the database and all the databases must go through these processes as explained earlier.

3.4 Resolution

<<Description of Resolution. Steps carried out to resolve the issue>>

Run following query to solve the issue. Where Database Name is XForce or Force Configuration whichever is stuck in Recovery mode.

```
USE [master] ;  
ALTER DATABASE [Database Name] SET RECOVERY FULL ;
```

3.5 Measures / Precautions

<<Measures & precautions to take to avoid any such problems in future >>