1. **DBCC CHECKDB**

* Used to check for and fix the database corruption issue.
* Check logical and physical integrity.
* Checks the each table one by one for data corruption issue.
* Checks values within tables to ensure that values are valid for that data type.
* Should be run regularly
* Should be run off hours
* Most expensive IO operation (check each table and table values)

Internal Steps: -

* Run DBCC CheckAlllog
* Run DBCC CheckTable
* Run DBCC CheckCatalog
* Validate the contents of any indexed views
* Validate the link level consistency between table metadata and file system directions and files.
* Validate the services broker data in database

Repair Level: -

* REPAIR\_REBUILD: --

Repair missing row and non-cluster index

* REPAIR\_FAST: -- It simply maintained for towards compatibility against old sql server instance (doesn’t work in sql server env 2012)
* REPAIR\_ALLOW\_DATA\_LOSS: --

Note: DBCC Check DB can’t repair “ system database ” , System tables are unrepairable. Only one option to repair the system database is to backup the system database.

Can not fix all errors

----Regular CheckDB

DBCC CHECKDB (DB\_NAME)

Result – Allocation error and consistency error

----Regular Checking Physical Only

DBCC CHECKDB (DB\_NAME) WITH PHYSICAL\_ONLY

---Regular Checking with Table Lock

DBCC CHECKDB (DB\_NAME) WITH TABLOCK

----Regular Checking with Estimate

DBCC CHECK DB (DB\_NAME) WITH ESTIMATEONLY