

⇒ QUALITY ENFORCEMENT

⇒ Schema enforcement in Delta Lake is automatic, but, additional checks are needed to ensure that only the data that meets our specific criteria gets into the table.

⇒ Databricks allows Table Constraints to be set on delta table.

~~Ex:~~

```
ALTER TABLE <table_name>
ADD CONSTRAINT <constraint_name>
CHECK ("data" > "2017-01-01")
```

✓ We can add a check constraint to a table with data, only if all the existing records meet the constraint.

If at least 1 record does not meet the check constraint condition, Delta table prevents such a constraint being applied.

Check constraint can be applied on an existing table, only if no records violate the CHECK constraint condition.

⇒ But there may be records in bronze table, that fail silver table check conditions.

If check constraint is set, and then silver is ingested with bronze data, for attempts to insert those records that do not meet the CHECK condition, entire job will fail.

Thus, to keep the streaming job running without fail, as well as identify the bad records, we need to Quarantine the bad records :- i.e., write the bad records to a diff. location — a separate table with same schema, as of the Silver table — will be called as Quarantine Table.

⇒ In the original table, we will add an additional field, that will contain some message for erroneous records, that needs to be quarantined.

This is called Flagging.