Database Schema Documentation

Important Points:

- 1. The SQL choosen is MySQL Community Server 8.0.15
- Given from doc:
 - * The three columns SUPPLIER_ID, PRODUCT_ID and QUANTITY are fixed in all feeds
 - * Combination of SUPPLIER ID and PRODUCT ID is Primary Key
 - * N number of columns can be present in each supplier file which is not known initially

Database Design:

- * Duplicate inserts are ignored.
- * TABLE1.SUPPLIER_PRODUCT is the main table
- * Since the columns are invariable/different on each feed we have another TABLE2.SUPPLIER_PRODUCT_OTHER_FEEDS, since the table 1 has composite primary key,
- table2 also must have reference to the composite combination.
- * Foreign Key Constraint- during TABLE2.SUPPLIER_PRODUCT_OTHER_FEEDS creation:
- ## FOREIGN KEY(SUPPLIER_ID, PRODUCT_ID) REFERENCES
 SUPPLIER_PRODUCT(SUPPLIER_ID, PRODUCT_ID)
- * There is one more column called column.Feeds in table2- Since the file feeds contain abnormal columns make a Key<Column>: Value<ColumnValue> pair in Tab-Delimiter separated for a row and then store the entire row. Either of the following data-type can be used for column.Feeds:
- → TEXT datatype: Max 65,535 characters
- → BLOB datatype: Stored in binary, no use if queried from DB. Not recommended.
- → JSON datatype: Mysql provides a simplified way to handle the problem. <u>I recommend this</u>. Can be queried from DB interface as well.
- * Triggers: After Batch Insert statements, a after-trigger is enabled to do logging; TABLE3.LOG_TRANS is used. Trigger.TRIG_INSERT to create a transaction ID and log each inserts.

Table2.SUPPLIER_PRODUCT_OTHER_FEEDS

SUPPLIER_ID	PRODUCT_ID	Feeds

Table1.SUPPLIER_PRODUCT

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	PRODUCT_ID	Quantity	
SUPPLIER_ID			
Trigger.TRIG_INSERT			
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Table3.LOG_TRANS

TranscationID	TimeStamp	Success