tlptaco Configuration Cheat-Sheet

Below is a **complete** YAML example showcasing every configuration key that tlptaco understands. Replace placeholder tokens (<...>), choose from the enumerated values (value1 | value2) and delete any block marked **OPTIONAL** if you don't need it.

```
# TOP-LEVEL METADATA
offer_code: <offer code>
campaign_planner: <planner name>
                                         # OPTIONAL
                                         # OPTIONAL
lead: <lead name>
logging:
 level: INFO | DEBUG | WARNING | ERROR
 file: path/to/run.log
                                         # OPTIONAL
 debug_file: path/to/run.debug.log
                                         # OPTIONAL
 sql_file: path/to/run.sql.log
                                         # OPTIONAL (captures
rendered SQL)
# DATABASE CONNECTION (Teradata)
database:
 host: <td-host>
 user: <username>
 password: <password>
                                          # OPTIONAL
 logmech: KRB5 | LDAP
                                          # OPTIONAL (defaults KRB5)
# PRE-RUN SQL FILES (executed in order) — OPTIONAL
                                         # OPTIONAL
pre sql:
 - sql/setup_temp_tables.sql
 - sql/refresh dimensions.sql
# ELIGIBILITY ENGINE
```

```
eligibility:
 eligibility_table: <schema.table>
 unique_identifiers:
    - c.customer_id
    - c.account_id
                                                      # as many as required
 tables:
    - name: <schema.customer>
     alias: c
     sql: |
                                                      # OPTIONAL inline view
        SELECT * FROM <schema.customer> WHERE load_dt = CURRENT_DATE
     join_type: ""
                                                      # e.g. LEFT JOIN - OPTIONAL
     join_conditions: ""
                                                      # OPTIONAL
     where_conditions: ""
                                                      # OPTIONAL (table-level)
     unique_index: customer_id
                                                     # OPTIONAL
     collect_stats: [customer_id, status_cd]
                                                     # OPTIONAL list
    - name: <schema.account>
      alias: a
      join_type: LEFT JOIN
                                                      # OPTIONAL (defaults INNER)
     join_conditions: c.customer_id = a.customer_id # REQUIRED for joined
tables
 conditions:
   main:
      BA:
                                                      # Base-eligibility checks
        - sql: c.age >= 18
          description: Must be adult
                                                      # OPTIONAL
        - sql: c.country_cd = 'US'
    channels:
      email:
                                                      # <channel name>
        BA:
          - sql: c.email_opt_in = 1
        loyalty_gold:
                                                      # <segment name>
          - sql: c.loyalty_tier = 'GOLD'
        loyalty_silver:
          - sql: c.loyalty_tier = 'SILVER'
      sms:
          - sql: c.sms_opt_in = 1
        high value:
          - sql: c.monthly_spend > 100
```

```
# WATERFALL ENGINE
# -----
waterfall:
  output_directory: path/to/waterfall/output
  count_columns:
    - c.customer_id
                                                    # single column group
    - [c.customer_id, c.account_id]
                                                    # multi-column group
  history:
                                                    # OPTIONAL - run history
    track: true | false
    db_path: path/to/waterfall_history.sqlite
                                                    # OPTIONAL (default inside
out dir)
    recent_window_days: 30
                                                     # alias: lookback_days -
OPTIONAL
                                                     # alias:
    compare_offset_days: 90
days ago to compare - OPTIONAL
# OUTPUT ENGINE
output:
  channels:
    email:
     columns:
        - c.customer id
        c.email_addr
        - c.template id
      file_location: path/to/email
                                                     # directory or DB schema
      file_base_name: email_list
      unique_on: [c.customer_id]
                                                     # OPTIONAL - dedupe keys
      output options:
        format: csv | excel | parquet | table
        additional arguments: {}
                                                     # OPTIONAL kwargs to writer
        custom_function: package.module.fn_name
                                                     # OPTIONAL post-process
hook
    sms:
     columns: [...]
      file_location: path/to/sms
     file_base_name: sms_list
      output_options:
        format: parquet
  failed records:
                                                    # OPTIONAL - failure dump
    enabled: true | false
```

file_location: path/to/failed
file_base_name: failed_list

output_options:

format: parquet | csv | excel | table

additional_arguments: {} # OPTIONAL

Field-by-Field Explanation

Top-level

Кеу	Required	Description
offer_code	1	Short label used by progress bar & filenames.
campaign_planner	×	Free-text metadata surfaced in waterfall report header.
lead	×	Another optional header field.
pre_sql	×	Ordered list of .sql script paths to execute before any engine logic.

logging

Key	Required	Values / Notes
level	1	Standard Python levels (IN FO, DEBUG,).
file	Х	Main log file; created if path supplied.
debug_file	х	All messages at DEBUG level.

Key	Required	Values / Notes
sql_file	×	Raw rendered SQL; extremely useful for copy- paste.

database

Кеу	Required	Notes
host	1	TDPID / hostname or IP.
user	/	Database user.
password	х	Skip when using logmech: KRB5.
logmech	X	KRB5 (Kerberos) or TD2 (password). Default KRB5 .

eligibility

See inline comments in YAML. Important points: * tables[0] is treated as the **FROM** table; subsequent tables must specify join_type & join_conditions. * conditions.main.BA is mandatory; only BA checks are allowed under main. * Under each channel you can define BA plus any number of segments (any key that isn't BA).

waterfall

- count_columns each entry is **either** a single column or a list that represents a composite group.
- History: set track: true to enable SQLite snapshots; choose either recent window days or compare offset days to pick the comparison run.

output

- Each **channel** key must also exist under eligibility.conditions.channels.
- format values:
 - csv plain CSV via pandas.to_csv().
 - excel or xlsx Excel workbook (openpyxl / xlsxwriter backend).
 - parquet Apache Parquet via pandas.to_parquet().

- table create a Teradata table where file_location is the schema and file_base_name the table name.
- unique_on (OPTIONAL) list of columns used for de-duplication inside the SQL (QUALIFY ROW_NUMBER...). Qualified identifiers allowed.

failed_records (OPTIONAL)

- enabled master switch.
- first_reason_only emit one row per ID (true) or one per failure reason (false).
- Remaining keys mirror the normal output channel pattern.

pre_sql (OPTIONAL)

Executed sequentially **before** the Eligibility Engine runs. Each file is split on ; and run via the same DB connection.