```sas
/* ------------------------------ */
/*  Step 1: Import Dataset into SAS  */
/* ------------------------------ */

PROC IMPORT DATAFILE="/home/u64173315/metaverse_transactions_dataset.csv"
    OUT=metaverse_data
    DBMS=CSV
    REPLACE;
    GUESSINGROWS=MAX;
RUN;


/* --------------------------------------------- */
/*  Step 2: Convert Multi-Class into Binary Target  */
/* --------------------------------------------- */

DATA metaverse_data;
    SET metaverse_data;
    IF anomaly = "low_risk" THEN fraud_flag = 0;
    ELSE fraud_flag = 1;  /* Combine moderate & high risk into 1 */
RUN;


/* --------------------------------------------- */
/*  Step 3: Split Data into Train (70%) & Test (30%)  */
/* --------------------------------------------- */

DATA metaverse_train metaverse_test;
    SET metaverse_data;
    IF RANUNI(12345) < 0.7 THEN OUTPUT metaverse_train;
    ELSE OUTPUT metaverse_test;
RUN;


/* ------------------------------ */
/*  Step 4: Train Logistic Regression and Compute AUC  */
/* ------------------------------ */

PROC LOGISTIC DATA=metaverse_train DESCENDING;
    CLASS fraud_flag (REF='0') location_region purchase_pattern age_group / PARAM=REF;
    MODEL fraud_flag = amount risk_score session_duration login_frequency
        / OUTROC=ROC_Logistic_AUC;
    OUTPUT OUT=Logistic_Predictions P=Pred_Prob;
RUN;


/* ------------------------------ */
/*  Step 5: Compute Confusion Matrix for Precision, Recall, and F1-Score  */
/* ------------------------------ */

PROC FREQ DATA=Logistic_Predictions;
    TABLES fraud_flag * Pred_Prob / CHISQ NOROW NOCOL NOPERCENT;
RUN;
```

```
/* ------------------------------- */
/*  Step 6: Print AUC Values  */
/* ------------------------------- */

PROC PRINT DATA=ROC_Logistic_AUC;
```