Q-2: Provide all the CREATE statements.

CREATE TABLE KPI_STG_CHANNEL(DATE_CREATED DATE, IS_RECORD_INACTIVE VARCHAR2(10), LAST_MODIFIED_DATE DATE, LIST_ID NUMBER, LIST_ITEM_NAME VARCHAR2(20));

CREATE TABLE KPI_STG_TRANSACTIONS (TRANSACTION_ID NUMBER, TRANID NUMBER, TRANSACTION_TYPE VARCHAR2(50), TRANDATE DATE, CHANNEL_ID NUMBER);

CREATE TABLE KPI_STG_ITEMS (ITEM_ID NUMBER, SKU VARCHAR2(100), TYPE_NAME VARCHAR2(30), SALESDESCRIPTION VARCHAR2(100), CLASS_ID NUMBER, WS_MERCHANDISE_DEPARTMENT_ID NUMBER, WS_MERCHANDISE_COLLECTION_ID NUMBER, WS_MERCHANDISE_CLASS_ID NUMBER, WS_MERCHANDISE_SUBCLASS_ID NUMBER);

CREATE TABLE KPI_STG_DEPARTMENTS (DATE_LAST_MODIFIED DATE, DEPARTMENT_ID NUMBER, ISINACTIVE VARCHAR2(5), NAME VARCHAR2(50), WS_DESCRIPTION VARCHAR2(50));

CREATE TABLE KPI_STG_LOCATIONS (LOCATION_ID NUMBER, ADDRESS VARCHAR2(120), CITY VARCHAR2(50), COUNTRY VARCHAR2(50), DATE_LAST_MODIFIED DATE, FULL_NAME VARCHAR2(60), ISINACTIVE VARCHAR2(5), NAME VARCHAR2(50));

CREATE TABLE KPI_STG_CLASSES (CLASS_ID NUMBER, DATE_LAST_MODIFIED DATE, FULL_NAME VARCHAR2(30), ISINACTIVE VARCHAR2(5), NAME VARCHAR2(5));

CREATE TABLE KPI_STG_TRANSACTIONS_LINES (TRANSACTION_ID NUMBER, TRANSACTION_LINE_ID NUMBER, LOCATION_ID NUMBER, DEPARTMENT_ID NUMBER, ITEM_ID NUMBER, AMOUNT NUMBER, COST NUMBER, UNITS NUMBER);

CREATE TABLE KPI_STG_ITEM_MERCHANDISE_DEPARTMENT (ITEM_MERCHANDISE_DEPARTMENT_ID NUMBER, DESCRIPTION VARCHAR2(20), ITEM_MERCHANDISE_DEPARTMENT_NA VARCHAR2(10));

CREATE TABLE KPI_STG_ITEM_MERCHANDISE_COLLECTION(ITEM_MERCHANDISE_COLLECTION_ID NUMBER, DESCRIPTION VARCHAR2(50), ITEM_MERCHANDISE_COLLECTION_NA VARCHAR2(50));

```
CREATE TABLE KPI_STG_ITEM_MERCHANDISE_SUBCLASS (
ITEM_MERCHANDISE_SUBCLASS_ID NUMBER, DESCRIPTION VARCHAR2(50),
ITEM_MERCHANDISE_SUBCLASS_NAME VARCHAR2(10) );
```

```
CREATE TABLE KPI_STG_ITEM_MERCHANDISE_CLASS (
ITEM_MERCHANDISE_CLASS_ID NUMBER, DESCRIPTION VARCHAR2(50),
ITEM_MERCHANDISE_CLASS_NAME VARCHAR2(5) );
```

Q-3: Load the data in the tables Provide the INSERT Scripts.

KPI_STG_CHANNEL:->

```
INSERT INTO KPI_STG_CHANNEL
VALUES(TO_DATE('2012/12/18','YYYY/MM/DD'),'F',TO_DATE('2013/04/30','YYYY/MM/DD'),1,'RETAIL');

INSERT INTO KPI_STG_CHANNEL
VALUES(TO_DATE('2012/12/18','YYYY/MM/DD'),'F',TO_DATE('2013/04/30','YYYY/MM/DD'),2,'DTC');

INSERT INTO KPI_STG_CHANNEL
VALUES(TO_DATE('2013/04/30','YYYY/MM/DD'),'F',TO_DATE('2013/04/30','YYYY/MM/DD'),3,'CARE CENTER');
```

KPI_STG_TRANSACTIONS:->

```
INSERT INTO KPI_STG_TRANSACTIONS VALUES(185339066, 2186178, 'SALES ORDER',
TO_DATE('2021/09/01','YYYY/MM/DD'), 2);

INSERT INTO KPI_STG_TRANSACTIONS VALUES(185339085, 2186192, 'SALES ORDER',
TO_DATE('2021/09/01','YYYY/MM/DD'), 2);

INSERT INTO KPI_STG_TRANSACTIONS VALUES(185339701, 2186202, 'SALES ORDER',
TO_DATE('2021/09/01','YYYY/MM/DD'), 2);

INSERT INTO KPI_STG_TRANSACTIONS VALUES(185340234, 2186227, 'SALES ORDER',
TO_DATE('2021/09/01','YYYY/MM/DD'), 2);
```

KPI_STG_DEPARTMENTS:->

```
INSERT INTO KPI_STG_DEPARTMENTS
VALUES(TO_DATE('2015/09/25','YYYY/MM/DD'), 1, 'NO', 7001, 'STORE WS NSW, BONDI
JUNCTION, 2/13(7001)');

INSERT INTO KPI_STG_DEPARTMENTS
VALUES(TO_DATE('2020/11/11','YYYY/MM/DD'), 2, 'NO', 7002, 'STORE PB NSW, BONDI
JUNCTION, 2/13(7002)');

INSERT INTO KPI_STG_DEPARTMENTS
VALUES(TO_DATE('2020/11/11','YYYY/MM/DD'), 3, 'NO', 7003, 'STORE PK NSW, BONDI
JUNCTION, 2/13 (7003)');

INSERT INTO KPI_STG_DEPARTMENTS
VALUES(TO_DATE('2015/09/25','YYYY/MM/DD'), 4, 'NO', 7004, 'STORE WE NSW, BONDI
JUNCTION, 2/13 (7004)');
```

KPI_STG_ITEMS:->

```
INSERT INTO KPI_STG_ITEMS VALUES(11068456, 5732022, 'NON-INVENTORY
ITEM','ANDES UK SECTINAL SET 02:RA 2.5 STR SFA/CORNER/OTTM POLY
PERFORMANCE VELVET PETROL DP', 1 , 47 , 408305 , 101 , 434 );
```

INSERT INTO KPI_STG_ITEMS VALUES(11086902, 6325288,'NON-INVENTORY ITEM','HARLOW CONVERTIBLE CRIB ANTIQUE GRAY DELUXE', 5 ,32, 197904,283, 52803);

INSERT INTO KPI_STG_ITEMS VALUES(11114043, 1458567,'NON-INVENTORY ITEM','TANNER ROUND 44 INCH DINING TABLE', 1 , 20 , 1986806, 205, 52302);

INSERT INTO KPI_STG_ITEMS VALUES(163 , 18143,'INVENTORY ITEM','FLAMELESS CANDLE4 INCHESIVORY' , 4, 28 , 1930706, 301, 485);

INSERT INTO KPI_STG_ITEMS VALUES(164, 18150,'INVENTORY ITEM','FLAMELESS CANDLE6 INCHESIVORY',4 , 28, 1930706, 301, 485);

KPI_STG_TRANSACTIONS_LINES:->

INSERT INTO KPI_STG_TRANSACTIONS_LINES VALUES(185339066 , 1 , 383 , 28 , 9918508, 31 , 0 , 1);

INSERT INTO KPI_STG_TRANSACTIONS_LINES VALUES(185339066, 2 , 383 , 28 , 3507200 , 56 , -20 , 1);

INSERT INTO KPI_STG_TRANSACTIONS_LINES VALUES(185339066 , 3 , 383 , 28 , 1406935, 31, -12 , 1);

INSERT INTO KPI_STG_TRANSACTIONS_LINES VALUES(185339066 , 4 , 383 , 28 , 9222, 56 , -28 , 1);

INSERT INTO KPI_STG_TRANSACTIONS_LINES VALUES(185339066 , 5 , 383 , 28 , 2046731, 28 , -16 , 1);

INSERT INTO KPI_STG_TRANSACTIONS_LINES VALUES(185339066, 6 , 383 , 28 , 919828, 153 , -73 , 1);

INSERT INTO KPI_STG_TRANSACTIONS_LINES VALUES(185339085 , 1 , 383 , 28 , 962429, 22 , -12 , 1);

KPI_STG_ITEM_MERCHANDISE_COLLECTION:->

INSERT INTO KPI_STG_ITEM_MERCHANDISE_COLLECTION VALUES(4, 'PB ESSENTIALS BEDDING', 'PB1015');

INSERT INTO KPI_STG_ITEM_MERCHANDISE_COLLECTION VALUES (5, 'MODERN WIRE COLLECTION', 'MODERN WIRE COLLECTION');

INSERT INTO KPI_STG_ITEM_MERCHANDISE_COLLECTION VALUES (6, 'WE NEW LINEN COTTON GROMMET CURTAIN', 'WE7078');

INSERT INTO KPI_STG_ITEM_MERCHANDISE_COLLECTION VALUES (7, 'WE BULLS EYE PILLOW COVER', 'WE3386');

INSERT INTO KPI_STG_ITEM_MERCHANDISE_COLLECTION VALUES (8, 'PB HARRISON', 'PB159');

KPI_STG_ITEM_MERCHANDISE_CLASS:->

INSERT INTO KPI_STG_ITEM_MERCHANDISE_CLASS VALUES (4,'SHEETS',1);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_CLASS VALUES (5,'WILLIAMS SONOMA',69);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_CLASS VALUES (6,'SOLID CURTAINS',7);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_CLASS VALUES (7,'VINEGARS',2);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_CLASS VALUES (8,'PATTERN + STRIPE PLW',3);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_CLASS VALUES (9,'BASKETS AND STORAGE',4);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_CLASS VALUES (10,'BLANKETS',6);

KPI_STG_ITEM_MERCHANDISE_SUBCLASS:->

INSERT INTO KPI_STG_ITEM_MERCHANDISE_SUBCLASS VALUES (4,'LIGHT FILTERING',1);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_SUBCLASS VALUES (5,'BALSAMIC',3);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_SUBCLASS VALUES (6,'UNASSIGNED',1);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_SUBCLASS VALUES (7,'WOVEN',1);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_SUBCLASS VALUES (8,'ICON',1);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_SUBCLASS VALUES (9,'STOOLS',1);

KPI_STG_CLASSES:->

INSERT INTO KPI_STG_CLASSES VALUES (1, TO_DATE('2018-02-13','YYYY-MM-DD'), 'WE','NO', 'WE');

INSERT INTO KPI_STG_CLASSES VALUES (3, TO_DATE('2013-06-13','YYYY-MM-DD'), 'PT','NO', 'PT');

INSERT INTO KPI_STG_CLASSES VALUES (4, TO_DATE('2013-06-13','YYYY-MM-DD'), 'PB','NO', 'PB');

INSERT INTO KPI_STG_CLASSES VALUES (5, TO_DATE('2013-06-13','YYYY-MM-DD'), 'PK','NO', 'PK');

KPI_STG_ITEM_MERCHANDISE_DEPARTMENT:->

INSERT INTO KPI_STG_ITEM_MERCHANDISE_DEPARTMENT VALUES (4, 'PB BEDDING', 203);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_DEPARTMENT VALUES (5, 'WS CUTLERY', 105);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_DEPARTMENT VALUES (6, 'WE WINDOW', 808);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_DEPARTMENT VALUES (7, 'WS SAVORY FOOD', 108);

INSERT INTO KPI_STG_ITEM_MERCHANDISE_DEPARTMENT VALUES (8, 'WE PILLOWS', 810);

KPI_STG_LOCATIONS:->

```
INSERT INTO KPI_STG_LOCATIONS VALUES (2,'SINGAPORE', 'NULL', 'SG',
TO_DATE('2017-08-07','YYYY-MM-DD'), 'TEST LOCATION', 'YES', 'TEST LOCATION');

INSERT INTO KPI_STG_LOCATIONS VALUES (3,'SINGAPORE', 'NULL', 'SG',
TO_DATE('2017-08-07','YYYY-MM-DD'), 'TEST LOCATION 2', 'YES', 'TEST LOCATION 2');

 INSERT INTO KPI_STG_LOCATIONS VALUES (4,'AUSTRALIA', 'NULL', 'AU',
TO_DATE('2017-08-07','YYYY-MM-DD'), 'TEST LOCATION 4', 'YES', 'TEST LOCATION 4');

INSERT INTO KPI_STG_LOCATIONS VALUES (5,'07001 - WS NSW, BONDI JUNCTION
472 OXFORD STREET BONDI JUNCTION NSW 2022 AUSTRALIA','BONDI JUNCTION',
'AU', TO_DATE('2017-08-07','YYYY-MM-DD'),'D07001 - WS NSW, BONDI JUNCTION', 'YES',
'D07001 - WS NSW, BONDI JUNCTION');
```

Q-4: Analyse the Business Keys if they meet Primary key conditions for all Stage tables Provide the SQLs to execute to ensure Primary Key conditions on business key.

KPI_STG_CHANNEL

SELECT COUNT(DISTINCT DATE_CREATED) FROM KPI_STG_CHANNEL WHERE DATE_CREATED IS NOT NULL;

>>>>4

SELECT COUNT(DISTINCT IS_RECORD_INACTIVE) FROM KPI_STG_CHANNEL WHERE IS_RECORD_INACTIVE IS NOT NULL;

>>>>1

SELECT COUNT(DISTINCT LAST_MODIFIED_DATE) FROM KPI_STG_CHANNEL WHERE LAST_MODIFIED_DATE IS NOT NULL;

>>>>3

SELECT COUNT(DISTINCT LIST_ID), FROM KPI_STG_CHANNEL WHERE LIST_ID IS NOT NULL;

>>>>5

SELECT COUNT(DISTINCT LIST_ITEM_NAME) FROM KPI_STG_CHANNEL WHERE LIST_ITEM_NAME IS NOT NULL;

>>>>5

KPI_STG_CLASSES

SELECT COUNT(CLASS_ID) FROM KPI_STG_CLASSES;

SELECT COUNT(DISTINCT CLASS_ID) FROM KPI_STG_CLASSES WHERE CLASS_ID IS NOT NULL;

>>>>6

SELECT COUNT(DISTINCT DATE_LAST_MODIFIED) FROM KPI_STG_CLASSES WHERE DATE_LAST_MODIFIED IS NOT NULL;

>>>>3

SELECT COUNT(DISTINCT FULL_NAME) FROM KPI_STG_CLASSES WHERE FULL_NAME IS NOT NULL;

>>>>6

SELECT COUNT(DISTINCT ISINACTIVE) FROM KPI_STG_CLASSES WHERE ISINACTIVE IS NOT NULL;

>>>>1

SELECT COUNT(DISTINCT NAME) FROM KPI_STG_CLASSES WHERE NAME IS NOT NULL;

>>>>6

KPI_STG_DEPARTMENTS

SELECT COUNT(*) FROM KPI_STG_DEPARTMENTS;

SELECT COUNT(DISTINCT DATE_LAST_MODIFIED) FROM KPI_STG_DEPARTMENTS WHERE DATE_LAST_MODIFIED IS NOT NULL;

>>>>39

SELECT COUNT(DISTINCT DEPARTMENT_ID) FROM KPI_STG_DEPARTMENTS WHERE DEPARTMENT_ID IS NOT NULL;

>>>>105

SELECT COUNT(DISTINCT ISINACTIVE) FROM KPI_STG_DEPARTMENTS WHERE ISINACTIVE IS NOT NULL;

>>>>2

SELECT COUNT(DISTINCT NAME) FROM KPI_STG_DEPARTMENTS WHERE NAME IS NOT NULL;

>>>>5

SELECT COUNT(DISTINCT WS_DESCRIPTION) FROM KPI_STG_DEPARTMENTS WHERE WS_DESCRIPTION IS NOT NULL;

>>>>100

KPI_STG_ITEM_MERCHANDISE_CLASS 83 ROWS

SELECT COUNT(*) FROM KPI_STG_ITEM_MERCHANDISE_CLASS;

SELECT COUNT(DISTINCT ITEM_MERCHANDISE_CLASS_ID) FROM KPI_STG_ITEM_MERCHANDISE_CLASS WHERE ITEM_MERCHANDISE_CLASS_ID IS NOT NULL;

>>>>83

SELECT COUNT(DISTINCT DESCRIPTION) FROM KPI_STG_ITEM_MERCHANDISE_CLASS WHERE DESCRIPTION IS NOT NULL;

>>>>72

SELECT COUNT(DISTINCT ITEM_MERCHANDISE_CLASS_NAME) FROM KPI_STG_ITEM_MERCHANDISE_CLASS WHERE ITEM_MERCHANDISE_CLASS_NAME IS NOT NULL;

>>>>17

KPI_STG_ITEM_MERCHANDISE_COLLE—86 ROWS

SELECT COUNT(*) FROM KPI_STG_ITEM_MERCHANDISE_COLLE;

SELECT COUNT(DISTINCT ITEM_MERCHANDISE_COLLECTION_ID) FROM KPI_STG_ITEM_MERCHANDISE_COLLE WHERE ITEM_MERCHANDISE_COLLECTION_ID IS NOT NULL;

>>>>86

SELECT COUNT(DISTINCT DESCRIPTION) FROM KPI_STG_ITEM_MERCHANDISE_COLLE WHERE DESCRIPTION IS NOT NULL;

>>>>86

SELECT COUNT(DISTINCT ITEM_MERCHANDISE_COLLECTION_NA) FROM KPI_STG_ITEM_MERCHANDISE_COLLE WHERE ITEM_MERCHANDISE_COLLECTION_NA IS NOT NULL;

>>>>86

KPI_STG_ITEM_MERCHANDISE_DEPAR—87 ROWS

SELECT COUNT(*) FROM KPI_STG_ITEM_MERCHANDISE_DEPAR;

SELECT COUNT(DISTINCT ITEM_MERCHANDISE_DEPARTMENT_ID) FROM KPI_STG_ITEM_MERCHANDISE_DEPAR WHERE ITEM_MERCHANDISE_DEPARTMENT_ID IS NOT NULL;

>>>>87

SELECT COUNT(DISTINCT DESCRIPTION) FROM KPI_STG_ITEM_MERCHANDISE_DEPAR WHERE DESCRIPTION IS NOT NULL;

>>>>87

SELECT COUNT(DISTINCT ITEM_MERCHANDISE_DEPARTMENT_NA) FROM KPI_STG_ITEM_MERCHANDISE_DEPAR WHERE ITEM_MERCHANDISE_DEPARTMENT_NA IS NOT NULL;

>>>>87

KPI_STG_ITEM_MERCHANDISE_SUBCL—85 ROWS

SELECT COUNT(*) FROM KPI_STG_ITEM_MERCHANDISE_SUBCL;

SELECT COUNT(DISTINCT ITEM_MERCHANDISE_SUBCLASS_ID) FROM KPI_STG_ITEM_MERCHANDISE_SUBCL WHERE ITEM_MERCHANDISE_SUBCLASS_ID IS NOT NULL;

>>>>85

SELECT COUNT(DISTINCT DESCRIPTION) FROM KPI_STG_ITEM_MERCHANDISE_SUBCL WHERE DESCRIPTION IS NOT NULL;

>>>>53

SELECT COUNT(DISTINCT ITEM_MERCHANDISE_SUBCLASS_NAME) FROM KPI_STG_ITEM_MERCHANDISE_SUBCL WHERE ITEM_MERCHANDISE_SUBCLASS_NAME IS NOT NULL;

>>>>12

KPI_STG_ITEMS—13101 ROWS

SELECT COUNT(*) FROM KPI_STG_ITEMS;

SELECT COUNT(DISTINCT ITEM_ID) FROM KPI_STG_ITEMS WHERE ITEM_ID IS NOT NULL;

>>>>13098

SELECT COUNT(DISTINCT SKU) FROM KPI_STG_ITEMS WHERE SKU IS NOT NULL; -- 13097 SELECT COUNT(DISTINCT TYPE_NAME) FROM KPI_STG_ITEMS WHERE TYPE_NAME IS NOT NULL;

>>>>2

SELECT COUNT(DISTINCT SALESDESCRIPTION) FROM KPI_STG_ITEMS WHERE SALESDESCRIPTION IS NOT NULL;

>>>>13069

SELECT COUNT(DISTINCT CLASS_ID) FROM KPI_STG_ITEMS WHERE CLASS_ID IS NOT NULL;

>>>>4

SELECT COUNT(DISTINCT WS_MERCHANDISE_DEPARTMENT_ID) FROM KPI_STG_ITEMS WHERE WS_MERCHANDISE_DEPARTMENT_ID IS NOT NULL;

>>>>87

SELECT COUNT(DISTINCT WS_MERCHANDISE_COLLECTION_ID) FROM KPI_STG_ITEMS WHERE WS_MERCHANDISE_COLLECTION_ID IS NOT NULL;

>>>>3738

SELECT COUNT(DISTINCT WS_MERCHANDISE_CLASS_ID) FROM KPI_STG_ITEMS WHERE WS_MERCHANDISE_CLASS_ID IS NOT NULL;

>>>>457

SELECT COUNT(DISTINCT WS_MERCHANDISE_SUBCLASS_ID) FROM KPI_STG_ITEMS WHERE WS_MERCHANDISE_SUBCLASS_ID IS NOT NULL;

>>>>1240

KPI_STG_LOCATIONS—114 ROWS

SELECT COUNT(*) FROM KPI_STG_LOCATIONS;

SELECT COUNT(DISTINCT LOCATION_ID) FROM KPI_STG_LOCATIONS WHERE LOCATION_ID IS NOT NULL;

>>>>114

SELECT COUNT(DISTINCT ADDRESS) FROM KPI_STG_LOCATIONS WHERE ADDRESS IS NOT NULL;

>>>>112

SELECT COUNT(DISTINCT CITY) FROM KPI_STG_LOCATIONS WHERE CITY IS NOT NULL;

>>>>34

SELECT COUNT(DISTINCT COUNTRY) FROM KPI_STG_LOCATIONS WHERE COUNTRY IS NOT NULL;

>>>>5

SELECT COUNT(DISTINCT DATE_LAST_MODIFIED) FROM KPI_STG_LOCATIONS WHERE DATE_LAST_MODIFIED IS NOT NULL;

>>>>31

SELECT COUNT(DISTINCT FULL_NAME) FROM KPI_STG_LOCATIONS WHERE FULL_NAME IS NOT NULL;

>>>>114

SELECT COUNT(DISTINCT ISINACTIVE) FROM KPI_STG_LOCATIONS WHERE ISINACTIVE IS NOT NULL;

>>>>2

SELECT COUNT(DISTINCT NAME) FROM KPI_STG_LOCATIONS WHERE NAME IS NOT NULL;

>>>>114

KPI_STG_TRANSACTIONS

SELECT COUNT(*) FROM KPI_STG_TRANSACTIONS;

>>>>43932

SELECT COUNT(DISTINCT TRANSACTION_ID) FROM KPI_STG_TRANSACTIONS WHERE TRANSACTION_ID IS NOT NULL;

>>>>43924

SELECT COUNT(DISTINCT TRANID) FROM KPI_STG_TRANSACTIONS WHERE TRANID IS NOT NULL;

>>>>43924

SELECT COUNT(DISTINCT TRANSACTION_TYPE) FROM KPI_STG_TRANSACTIONS WHERE TRANSACTION_TYPE IS NOT NULL;

>>>>2

SELECT COUNT(DISTINCT TRANDATE) FROM KPI_STG_TRANSACTIONS WHERE TRANDATE IS NOT NULL;

>>>>30

SELECT COUNT(DISTINCT CHANNEL_ID) FROM KPI_STG_TRANSACTIONS WHERE CHANNEL_ID IS NOT NULL;

>>>>4

KPI_STG_TRANSACTIONS_LINES

SELECT COUNT(*) FROM KPI_STG_TRANSACTIONS_LINES;

>>>>147616

SELECT COUNT(DISTINCT TRANSACTION_ID) FROM KPI_STG_TRANSACTIONS_LINES WHERE TRANSACTION_ID IS NOT NULL;

>>>>43924

SELECT COUNT(DISTINCT TRANSACTION_LINE_ID) FROM KPI_STG_TRANSACTIONS_LINES WHERE TRANSACTION_LINE_ID IS NOT NULL;

>>>>187

SELECT COUNT(DISTINCT LOCATION_ID) FROM KPI_STG_TRANSACTIONS_LINES WHERE LOCATION_ID IS NOT NULL;

>>>>20

SELECT COUNT(DISTINCT DEPARTMENT_ID) FROM KPI_STG_TRANSACTIONS_LINES WHERE DEPARTMENT_ID IS NOT NULL;

>>>>33

SELECT COUNT(DISTINCT ITEM_ID) FROM KPI_STG_TRANSACTIONS_LINES WHERE ITEM_ID IS NOT NULL;

>>>>13097

SELECT COUNT(DISTINCT AMOUNT) FROM KPI_STG_TRANSACTIONS_LINES WHERE AMOUNT IS NOT NULL;

>>>>1416

SELECT COUNT(DISTINCT COST) FROM KPI_STG_TRANSACTIONS_LINES WHERE COST IS NOT NULL;

>>>>1430

SELECT COUNT(DISTINCT UNITS) FROM KPI_STG_TRANSACTIONS_LINES WHERE UNITS IS NOT NULL;

>>>>104

Q-5: Delete the duplicate records if exists and maintain unique record Provide the DELETE scripts using Analytical function.

```
DELETE FROM KPI_STG _ITEMS WHERE WS_MERCHANDISE_COLLECTION_ID NOT IN (SELECT ITEM_MERCHANDISE_COLLECTION_ID FROM KPI_STG_ITEM_MERCHANDISE_COLLE);

DELETE FROM KPI_STG _ITEMS WHERE WS_MERCHANDISE_CLASS _ID NOT IN (SELECT ITEM_MERCHANDISE_CLASS_ID FROM KPI_STG_ITEM_MERCHANDISE_CLASS);

DELETE FROM KPI_STG_ITEMS WHERE WS_MERCHANDISE_SUBCLASS_ID NOT IN (SELECT ITEM_MERCHANDISE_SUBCLASS_ID FROM KPI_STG_ITEM_MERCHANDISE_SUBCL);

DELETE FROM KPI_STG_ITEM_MERCHANDISE_DEPAR WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM KPI_STG_ITEM_MERCHANDISE_DEPAR GROUP BY ITEM_MERCHANDISE_DEPARTMENT_ID);

DELETE FROM KPI_STG_TRANSACTIONS_LINES WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM KPI_STG_TRANSACTIONS_LINES GROUP BY TRANSACTION_ID,TRANSACTION_LINE_ID);

DELETE FROM KPI_STG_CHANNEL WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM KPI_STG_CHANNEL GROUP BY LIST_ID) ;

DELETE FROM KPI_STG_DEPARTMENTS WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM KPI_STG_DEPARTMENTS GROUP BY DEPARTMENT_ID) ;

DELETE FROM KPI_STG_ITEM_MERCHANDISE_CLASS WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM KPI_STG_ITEM_MERCHANDISE_CLASS GROUP BY ITEM_MERCHANDISE_CLASS_ID);

 DELETE FROM KPI_STG_ITEM_MERCHANDISE_COLLE WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM KPI_STG_ITEM_MERCHANDISE_COLLE GROUP BY ITEM_MERCHANDISE_COLLECTION_ID);

DELETE FROM KPI_STG_ITEM_MERCHANDISE_SUBCL WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM KPI_STG_ITEM_MERCHANDISE_SUBCL GROUP BY ITEM_MERCHANDISE_SUBCLASS_ID);

DELETE FROM KPI_STG_LOCATIONS WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM KPI_STG_LOCATIONS GROUP BY LOCATION_ID);

DELETE FROM KPI_STG_TRANSACTIONS WHERE ROWID NOT IN (SELECT MIN(ROWID) FROM KPI_STG_TRANSACTIONS GROUP BY TRANSACTION_ID);
```

Q-6: Create Primary Key on Stage tables Provide the scripts used to create Primary Key.

```
ALTER TABLE KPI_STG_CHANNEL ADD PRIMARY KEY(LIST_ID);

ALTER TABLE KPI_STG_CLASSES ADD PRIMARY KEY(CLASS_ID);

ALTER TABLE KPI_STG_DEPARTMENTS ADD PRIMARY KEY(DEPARTMENT_ID);

ALTER TABLE KPI_STG_ITEM_MERCHANDISE_CLASS ADD PRIMARY
KEY(ITEM_MERCHANDISE_CLASS_ID);

ALTER TABLE KPI_STG_ITEM_MERCHANDISE_COLLE ADD PRIMARY
KEY(ITEM_MERCHANDISE_COLLECTION_ID);

ALTER TABLE KPI_STG_ITEM_MERCHANDISE_DEPAR ADD PRIMARY
KEY(ITEM_MERCHANDISE_DEPARTMENT_ID);

ALTER TABLE KPI_STG_ITEM_MERCHANDISE_SUBCL ADD PRIMARY
KEY(ITEM_MERCHANDISE_SUBCLASS_ID);

ALTER TABLE KPI_STG_ITEMS ADD PRIMARY KEY(ITEM_ID);

ALTER TABLE KPI_STG_LOCATIONS ADD PRIMARY KEY(LOCATION_ID);

ALTER TABLE KPI_STG_TRANSACTIONS ADD PRIMARY KEY(TRANSACTION_ID);

ALTER TABLE KPI_STG_TRANSACTIONS_LINES ADD PRIMARY
KEY(TRANSACTION_ID,TRANSACTION_LINE_ID);
```

Q-7: Identify the relationships between each table Provide the SELECT SQLs executed to identify the relationships.

```
ALTER TABLE KPI_STG_ITEMS ADD CONSTRAINT FK_KPI_STG_ITEMS FOREIGN KEY(CLASS_ID) REFERENCES KPI_STG_CLASSES(CLASS_ID);

ALTER TABLE KPI_STG_ITEMS ADD CONSTRAINT FK_KP_STG_ITEMS FOREIGN KEY(WS_MERCHANDISE_DEPARTMENT_ID) REFERENCES KPI_STG_ITEM_MERCHANDISE_DEPAR(ITEM_MERCHANDISE_DEPARTMENT_ID);

ALTER TABLE KPI_STG_ITEMS ADD CONSTRAINT FK_K_STG_ITEMS FOREIGN KEY(WS_MERCHANDISE_COLLECTION_ID) REFERENCES KPI_STG_ITEM_MERCHANDISE_COLLE(ITEM_MERCHANDISE_COLLECTION_ID);

ALTER TABLE KPI_STG_ITEMS ADD CONSTRAINT FK_KPI_ST_ITEMS FOREIGN KEY(WS_MERCHANDISE_CLASS_ID) REFERENCES KPI_STG_ITEM_MERCHANDISE_CLASS(ITEM_MERCHANDISE_CLASS_ID);

 ALTER TABLE KPI_STG_ITEMS ADD CONSTRAINT FK_KPI_S_ITEMS FOREIGN KEY(WS_MERCHANDISE_SUBCLASS_ID) REFERENCES KPI_STG_ITEM_MERCHANDISE_SUBCL(ITEM_MERCHANDISE_SUBCLASS_ID);

ALTER TABLE KPI_STG_TRANSACTIONS_LINES ADD CONSTRAINT FK_KPI_STG_TRANSACTIONS_LINES FOREIGN KEY(LOCATION_ID) REFERENCES KPI_STG_LOCATIONS(LOCATION_ID);

ALTER TABLE KPI_STG_TRANSACTIONS_LINES ADD CONSTRAINT FK_KPI_TRANSACTIONS_LINES FOREIGN KEY(DEPARTMENT_ID) REFERENCES KPI_STG_DEPARTMENTS(DEPARTMENT_ID);

ALTER TABLE KPI_STG_TRANSACTIONS_LINES ADD CONSTRAINT FK_STG_TRANSACTIONS_LINES FOREIGN KEY(ITEM_ID) REFERENCES KPI_STG_ITEMS(ITEM_ID);

ALTER TABLE KPI_STG_TRANSACTIONS ADD CONSTRAINT FK_KPI_STG_TRANSACTIONS FOREIGN KEY(CHANNEL_ID) REFERENCES KPI_STG_CHANNEL(LIST_ID);
```

Q-8: Create all the Target Tables.

CREATE TABLE KPI_LOCATION_DIM(LOCATION_ID NUMBER(20,0), ADDRESS VARCHAR(100), CITY VARCHAR(50), COUNTRY VARCHAR(50), DATE_LAST_MODIFIED DATE, FULL_NAME VARCHAR(50), ISINACTIVE VARCHAR(5), NAME VARCHAR(50), KPI_DW_SKEY NUMBER(20,0), KPI_DW_INSERT_DATE DATE, KPI_DW_UPDATE_DATE DATE);

CREATE TABLE KPI_TRANSACTION_LINE_FACT(TRANSACTION_ID NUMBER(20,0), TRANSACTION_LINE_ID NUMBER(20,0), TRANID VARCHAR(30), TRANSACTION_TYPE VARCHAR(50), TRANDATE DATE, KPI_CHANNEL_SKEY NUMBER(20,0), KPI_LOCATION_SKEY NUMBER(20,0), KPI_DEPARTMENT_SKEY NUMBER(20,0), KPI_ITEM_SKEY NUMBER(20,0), AMOUNT NUMBER(8,2), COST NUMBER(8,2), UNITS NUMBER(5,0), KPI_DW_SKEY NUMBER(20,0));

CREATE TABLE KPI_CHANNEL_DIM (DATE_CREATED DATE, IS_RECORD_INACTIVE VARCHAR2(100), LAST_MODIFIED_DATE DATE, LIST_ID NUMBER(20,0), LIST_ITEM_NAME VARCHAR2(20), KPI_DW_SKEY NUMBER(20,0), KPI_DW_INSERT_DATE DATE, KPI_DW_UPDATE_DATE DATE);

CREATE TABLE KPI_CLASS_DIM (CLASS_ID NUMBER(20,0), DATE_LAST_MODIFIED DATE, FULL_NAME VARCHAR2(30), ISINACTIVE VARCHAR2(5), NAME VARCHAR2(5), KPI_DW_SKEY NUMBER(20,0), KPI_DW_INSERT_DATE DATE, KPI_DW_UPDATE_DATE date);

CREATE TABLE KPI_ITEM_MERCHANDISE_DEPAR_DIM (ITEM_MERCHANDISE_DEPARTMENT_ID NUMBER(20,0), DESCRIPTION VARCHAR2(50), ITEM_MERCHANDISE_DEPARTMENT_NA VARCHAR2(10), KPI_DW_SKEY NUMBER(20,0), KPI_DW_INSERT_DATE DATE, KPI_DW_UPDATE_DATE DATE);

CREATE TABLE KPI_ITEM_MERCHANDISE_COL_DIM (ITEM_MERCHANDISE_COLLECTION_ID NUMBER(20,0), DESCRIPTION VARCHAR2(100), ITEM_MERCHANDISE_COLLECTION_NA VARCHAR2(100), KPI_DW_SKEY NUMBER(20,0), KPI_DW_INSERT_DATE DATE, KPI_DW_UPDATE_DATE DATE);

CREATE TABLE KPI_ITEM_MERCHANDISE_CLASS_DIM (ITEM_MERCHANDISE_CLASS_ID NUMBER(20,0), DESCRIPTION VARCHAR2(100), ITEM_MERCHANDISE_CLASS_NAME VARCHAR2(100), KPI_DW_SKEY NUMBER(20,0), KPI_DW_INSERT_DATE DATE, KPI_DW_UPDATE_DATE DATE);

CREATE TABLE KPI_ITEM_MERCHANDISE_SUBCL_DIM (ITEM_MERCHANDISE_SUBCLASS_ID NUMBER(20,0), DESCRIPTION VARCHAR2(100), ITEM_MERCHANDISE_SUBCLASS_NAME VARCHAR2(100), KPI_DW_SKEY NUMBER(20,0), KPI_DW_INSERT_DATE DATE, KPI_DW_UPDATE_DATE DATE);

CREATE TABLE KPI_DEPARTMENT_DIM (DATE_LAST_MODIFIED DATE, DEPARTMENT_ID NUMBER(20,0), ISINACTIVE VARCHAR2(100), NAME VARCHAR2(10), WS_DESCRIPTION VARCHAR2(100), KPI_DW_SKEY NUMBER(20,0), KPI_DW_INSERT_DATE DATE, KPI_DW_UPDATE_DATE DATE);

CREATE TABLE KPI_ITEM_DIM (ITEM_ID NUMBER(20,0), SKU VARCHAR2(100), TYPE_NAME VARCHAR2(100), SALESDESCRIPTION VARCHAR2(100), KPI_DW_SKEY NUMBER(20,0), KPI_DW_INSERT_DATE DATE, KPI_DW_UPDATE_DATE DATE, KPI_CLASS_SKEY NUMBER(20,0), WS_MERCHANDISE_DEPARTMENT_SKEY

NUMBER(20,0), WS_MERCHANDISE_COLLECTION_SKEY NUMBER(20,0),
WS_MERCHANDISE_CLASS_SKEY NUMBER(20,0),
WS_MERCHANDISE_SUBCLASS_SKEY NUMBER(20,0));