

## TASK7 REPORT

### 1 CREATE AND FILL 3NF OBJECTS

#### Step 1: create tables and synonyms

##### **ce\_channel\_classes**

```
DROP TABLE bl_3nf.ce_channel_classes CASCADE CONSTRAINTS;
CREATE TABLE bl_3nf.ce_channel_classes (
    channel_class_id          NUMBER(38)      NOT NULL,
    channel_class_srcid       VARCHAR2(50 CHAR) NOT NULL,
    channel_class_source_system VARCHAR2(50 CHAR) NOT NULL,
    channel_class_source_entity VARCHAR2(50 CHAR) NOT NULL,
    channel_class             VARCHAR2(50 CHAR) NOT NULL,
    TA_UPDATE_DT              DATE             NOT NULL,
    TA_INSERT_DT              DATE             NOT NULL
);
ALTER TABLE bl_3nf.ce_channel_classes
    ADD CONSTRAINT ce_channel_class_pk
    PRIMARY KEY ( channel_class_id );
CREATE PUBLIC SYNONYM ce_channel_classes
FOR bl_3nf.ce_channel_classes;
```

##### **ce\_promotion\_categories**

```
DROP TABLE bl_3nf.ce_promotion_categories CASCADE CONSTRAINTS;
CREATE TABLE bl_3nf.ce_promotion_categories (
    promotion_category_id      NUMBER(38)      NOT NULL,
    promotion_category_srcid    VARCHAR2(50 CHAR) NOT NULL,
    promotion_category_source_system VARCHAR2(50 CHAR) NOT NULL,
    promotion_category_source_entity VARCHAR2(50 CHAR) NOT NULL,
    promotion_category          VARCHAR2(50 CHAR) NOT NULL,
    TA_UPDATE_DT               DATE             NOT NULL,
    TA_INSERT_DT               DATE             NOT NULL
);
ALTER TABLE bl_3nf.ce_promotion_categories
    ADD CONSTRAINT ce_promotion_category_pk
    PRIMARY KEY (promotion_category_id );

CREATE PUBLIC SYNONYM ce_promotion_categories
FOR bl_3nf.ce_promotion_categories;
```

##### **bl\_3nf.ce\_brands**

```

DROP TABLE bl_3nf.ce_brands CASCADE CONSTRAINTS;
CREATE TABLE bl_3nf.ce_brands (
    product_brand_id      NUMBER(38)      NOT NULL,
    product_brand_srcid    VARCHAR2(50 CHAR) NOT NULL,
    product_brand_source_system VARCHAR2(50 CHAR) NOT NULL,
    product_brand_source_entity VARCHAR2(50 CHAR) NOT NULL,
    product_brand          VARCHAR2(50 CHAR) NOT NULL,
    TA_UPDATE_DT           DATE            NOT NULL,
    TA_INSERT_DT           DATE            NOT NULL

);
ALTER TABLE bl_3nf.ce_brands
    ADD CONSTRAINT ce_product_brand_pk
    PRIMARY KEY ( product_brand_id );

CREATE PUBLIC SYNONYM ce_brands
FOR bl_3nf.ce_brands;

```

### **bl\_3nf.ce\_product\_types**

```

DROP TABLE bl_3nf.ce_product_types CASCADE CONSTRAINTS;
CREATE TABLE bl_3nf.ce_product_types (
    product_type_id      NUMBER(38)      NOT NULL,
    product_type_srcid    VARCHAR2(50 CHAR) NOT NULL,
    product_type_source_system VARCHAR2(50 CHAR) NOT NULL,
    product_type_source_entity VARCHAR2(50 CHAR) NOT NULL,
    product_type          VARCHAR2(50 CHAR) NOT NULL,
    TA_UPDATE_DT           DATE            NOT NULL,
    TA_INSERT_DT           DATE            NOT NULL

);
ALTER TABLE bl_3nf.ce_product_types
    ADD CONSTRAINT ce_product_type_pk
    PRIMARY KEY ( product_type_id );
CREATE PUBLIC SYNONYM ce_product_types
FOR bl_3nf.ce_product_types;

```

### **bl\_3nf.ce\_countries**

```

DROP TABLE bl_3nf.ce_countries CASCADE CONSTRAINTS;
CREATE TABLE bl_3nf.ce_countries (
    country_id      NUMBER(38)      NOT NULL,
    country_srcid    VARCHAR2(50 CHAR) NOT NULL,
    country_source_system VARCHAR2(50 CHAR) NOT NULL,
    country_source_entity VARCHAR2(50 CHAR) NOT NULL,
    country          VARCHAR2(50 CHAR) NOT NULL,
    TA_UPDATE_DT     DATE            NOT NULL,
    TA_INSERT_DT     DATE            NOT NULL

```

```
);
ALTER TABLE bl_3nf.ce_countries
  ADD CONSTRAINT ce_countries_pk
  PRIMARY KEY ( country_id );
CREATE PUBLIC SYNONYM ce_countries
FOR bl_3nf.ce_countries;
```

## Step 2: Fill tables

I have used Merge function. Example of code:

```
MERGE INTO ce_channel_classes ch
  USING (SELECT DISTINCT
    channel_class_id AS channel_class_srcid,
    'personnel_sales' AS channel_class_source_system,
    'src_channels' AS channel_class_source_entity,
    COALESCE(channel_class,'N/A')AS channel_class
  FROM SA_SOURCE_SYSTEM_1.src_channels
) t
  ON (ch.channel_class_srcid = t.channel_class_srcid
  AND ch.channel_class_source_system = t.channel_class_source_system
  AND ch.channel_class_source_entity = t.channel_class_source_entity)
  WHEN NOT MATCHED THEN
    INSERT( channel_class_id,channel_class_srcid, channel_class_source_system,
channel_class_source_entity, channel_class, ta_update_dt, ta_insert_dt)
    VALUES(seq_ce_channel_class_id.NEXTVAL,t.channel_class_srcid,
t.channel_class_source_system, t.channel_class_source_entity, t.channel_class,
SYSDATE,SYSDATE);

MERGE INTO ce_channel_classes ch
  USING (SELECT DISTINCT
    -1 AS channel_class_id,
    -1 AS channel_class_srcid,
    'personnel_sales' AS channel_class_source_system,
    'src_channels' AS channel_class_source_entity,
    'N/A' AS channel_class
  FROM DUAL
) t
  ON (ch.channel_class_srcid = t.channel_class_srcid
  AND ch.channel_class_source_system = t.channel_class_source_system
  AND ch.channel_class_source_entity = t.channel_class_source_entity)
  WHEN NOT MATCHED THEN
    INSERT( channel_class_id,channel_class_srcid, channel_class_source_system,
channel_class_source_entity, channel_class, ta_update_dt, ta_insert_dt)
    VALUES(t.channel_class_id,t.channel_class_srcid, t.channel_class_source_system,
t.channel_class_source_entity, t.channel_class, SYSDATE,SYSDATE);
SELECT * FROM ce_channel_classes;
commit;
```

Code for the rest tables in folder scripts

### Step3: results

#### Channel\_class

Script Output x Query Result x Query Result 1 x Query Result 2 x Query Result 3 x Query Result 4 x Query Result 5 x Query Result 6 x Query Result 7 x Query Result 8 x Query Result 9 x

SQL | All Rows Fetched: 4 in 0.002 seconds

CHANNEL_CLASS_ID	CHANNEL_CLASS_SRCID	CHANNEL_CLASS_SOURCE_SYSTEM	CHANNEL_CLASS_SOURCE_ENTITY	CHANNEL_CLASS	TA_UPDATE_DT	TA_INSERT_DT
1	1 1	personnel_sales	src_channels	Direct	24-FEB-22	24-FEB-22
2	2 2	personnel_sales	src_channels	Indirect	24-FEB-22	24-FEB-22
3	3 1	company_sales	src_channels	Direct	24-FEB-22	24-FEB-22
4	4 2	company_sales	src_channels	Indirect	24-FEB-22	24-FEB-22

#### Promotion\_categories

Script Output x Query Result x Query Result 1 x Query Result 2 x Query Result 3 x Query Result 4 x Query Result 5 x

SQL | All Rows Fetched: 10 in 0.003 seconds

PROMOTION_CA...	PROMO...	PROMO...	PROMO...	PROMOTION_CATEGORY	TA_UPDATE_DT	TA_INS...
1	1 1	personn...	src_cha...	NO PROMOTION	24-FEB-22	24-FEB-22
2	2 2	personn...	src_cha...	TV	24-FEB-22	24-FEB-22
3	3 3	personn...	src_cha...	ad news	24-FEB-22	24-FEB-22
4	4 5	personn...	src_cha...	internet	24-FEB-22	24-FEB-22
5	5 8	personn...	src_cha...	post	24-FEB-22	24-FEB-22
6	6 1	company...	src_pro...	NO PROMOTION	24-FEB-22	24-FEB-22
7	7 2	company...	src_pro...	TV	24-FEB-22	24-FEB-22
8	8 3	company...	src_pro...	ad news	24-FEB-22	24-FEB-22
9	9 5	company...	src_pro...	internet	24-FEB-22	24-FEB-22
10	10 8	company...	src_pro...	post	24-FEB-22	24-FEB-22

#### brand

Script Output x Query Result x Query Result 1 x Query Result 2 x Query Result 3 x Query Result 4 x Query Result 5 x Query Result 6 x Query Result 7 x Query Result 8 x Query Result 9 x

SQL | Fetched 50 rows in 0.002 seconds

PRODUCT_BRAND_ID	PRODUCT_BRAND_SRCID	PRODUCT_BRAND_SOURCE_SYSTEM	PRODUCT_BRAND_SOURCE_ENTITY	PRODUCT_BRAND	TA_UPDATE_DT	TA_INSERT_DT
1	107 195	personnel_sales	src_products	Clinique	24-FEB-22	24-FEB-22
2	108 196	personnel_sales	src_products	VDL	24-FEB-22	24-FEB-22
3	109 197	personnel_sales	src_products	Wild and Crazy	24-FEB-22	24-FEB-22
4	110 198	personnel_sales	src_products	Anastasia	24-FEB-22	24-FEB-22
5	111 199	personnel_sales	src_products	Dianne Brill	24-FEB-22	24-FEB-22
6	112 2	personnel_sales	src_products	ChapStick	24-FEB-22	24-FEB-22
7	113 20	personnel_sales	src_products	YBF	24-FEB-22	24-FEB-22
8	114 200	personnel_sales	src_products	Kanebo Sensai	24-FEB-22	24-FEB-22
9	115 201	personnel_sales	src_products	Fresh	24-FEB-22	24-FEB-22
10	116 202	personnel_sales	src_products	Sorme	24-FEB-22	24-FEB-22
11	117 203	personnel_sales	src_products	Exuviance	24-FEB-22	24-FEB-22
12	118 204	personnel_sales	src_products	ORLY	24-FEB-22	24-FEB-22
13	119 205	personnel_sales	src_products	Kjaer Weis	24-FEB-22	24-FEB-22
14	120 206	personnel_sales	src_products	Essence	24-FEB-22	24-FEB-22
15	121 207	personnel_sales	src_products	LASplash	24-FEB-22	24-FEB-22
16	122 208	personnel_sales	src_products	No. 7	24-FEB-22	24-FEB-22
17	123 209	personnel_sales	src_products	Origins	24-FEB-22	24-FEB-22
18	124 21	personnel_sales	src_products	Flower Beauty	24-FEB-22	24-FEB-22
19	125 210	personnel_sales	src_products	Eve Pearl	24-FEB-22	24-FEB-22
20	126 211	personnel_sales	src_products	Perfekt	24-FEB-22	24-FEB-22
21	127 212	personnel_sales	src_products	Juice Beauty	24-FEB-22	24-FEB-22

#### product\_types

Script Output x Query Result x Query Result 1 x Query Result 2 x Query Result 3 x Query Result 4 x Query Result 5 x Query Result 6 x Query Result 7 x Query Result 8 x Query Result 9 x

SQL | Fetched 50 rows in 0.007 seconds

PRODUCT_TYPE_ID	PRODUCT_TYPE_SRCID	PRODUCT_TYPE_SOURCE_SYSTEM	PRODUCT_TYPE_SOURCE_ENTITY	PRODUCT_TYPE	TA_UPDATE_DT	TA_INSERT_DT
1	380 87	personnel_sales	src_products	Facial Cleanser	24-FEB-22	24-FEB-22
2	381 88	personnel_sales	src_products	Mousse	24-FEB-22	24-FEB-22
3	382 89	personnel_sales	src_products	Fast Dry Coat	24-FEB-22	24-FEB-22
4	383 9	personnel_sales	src_products	False Eyelashes	24-FEB-22	24-FEB-22
5	384 90	personnel_sales	src_products	Lipstick	24-FEB-22	24-FEB-22
6	385 91	personnel_sales	src_products	Tinted Moisturizer	24-FEB-22	24-FEB-22
7	386 92	personnel_sales	src_products	Eyeshadow Palette	24-FEB-22	24-FEB-22
8	387 93	personnel_sales	src_products	Treatment	24-FEB-22	24-FEB-22
9	388 94	personnel_sales	src_products	Concealer	24-FEB-22	24-FEB-22
10	389 95	personnel_sales	src_products	Eye	24-FEB-22	24-FEB-22
11	390 96	personnel_sales	src_products	Thickening	24-FEB-22	24-FEB-22
12	391 97	personnel_sales	src_products	Pencil	24-FEB-22	24-FEB-22
13	392 98	personnel_sales	src_products	Lip Scrub	24-FEB-22	24-FEB-22
14	393 99	personnel_sales	src_products	Highlighter	24-FEB-22	24-FEB-22
15	394 1	personnel_sales	src_products	Felt-Tip	24-FEB-22	24-FEB-22
16	395 10	personnel_sales	src_products	Brush	24-FEB-22	24-FEB-22
17	396 100	personnel_sales	src_products	Exfoliators & Scrubs	24-FEB-22	24-FEB-22
18	397 101	personnel_sales	src_products	Dry Shampoo	24-FEB-22	24-FEB-22
19	398 102	personnel_sales	src_products	Baked	24-FEB-22	24-FEB-22
20	399 103	personnel_sales	src_products	Toner	24-FEB-22	24-FEB-22
21	400 104	personnel_sales	src_products	Lip Palette	24-FEB-22	24-FEB-22

## countries

Script Output x Query Result x Query Result 1 x Query Result 2 x Query Result 3 x Query Result 4 x Query Result 5 x Query Result 6 x Query Result 7

SQL | All Rows Fetched: 46 in 0.002 seconds

	COUNTRY_ID	COUNTRY_SRCID	COUNTRY_SOURCE_SYSTEM	COUNTRY_SOURCE_ENTITY	COUNTRY	TA_UPDATE_DT	TA_INSERT_DT
1	1 1		personnel_sales	src_products	Singapore	24-FEB-22	24-FEB-22
2	2 10		personnel_sales	src_products	Spain	24-FEB-22	24-FEB-22
3	3 11		personnel_sales	src_products	France	24-FEB-22	24-FEB-22
4	4 12		personnel_sales	src_products	Ireland	24-FEB-22	24-FEB-22
5	5 13		personnel_sales	src_products	India	24-FEB-22	24-FEB-22
6	6 14		personnel_sales	src_products	Japan	24-FEB-22	24-FEB-22
7	7 15		personnel_sales	src_products	Malaysia	24-FEB-22	24-FEB-22
8	8 16		personnel_sales	src_products	The Netherlands	24-FEB-22	24-FEB-22
9	9 17		personnel_sales	src_products	New Zealand	24-FEB-22	24-FEB-22
10	10 18		personnel_sales	src_products	Poland	24-FEB-22	24-FEB-22
11	11 19		personnel_sales	src_products	Saudi Arabia	24-FEB-22	24-FEB-22
12	12 2		personnel_sales	src_products	Italy	24-FEB-22	24-FEB-22
13	13 20		personnel_sales	src_products	Turkey	24-FEB-22	24-FEB-22
14	14 21		personnel_sales	src_products	United Kingdom	24-FEB-22	24-FEB-22
15	15 22		personnel_sales	src_products	United States of America	24-FEB-22	24-FEB-22
16	16 23		personnel_sales	src_products	South Africa	24-FEB-22	24-FEB-22
17	17 3		personnel_sales	src_products	China	24-FEB-22	24-FEB-22
18	18 4		personnel_sales	src_products	Canada	24-FEB-22	24-FEB-22
19	19 5		personnel_sales	src_products	Argentina	24-FEB-22	24-FEB-22
20	20 6		personnel_sales	src_products	Australia	24-FEB-22	24-FEB-22
21	21 7		personnel_sales	src_products	Brazil	24-FEB-22	24-FEB-22

Compiler - Log