1 CREATE AND FILL 3NF OBJECTS

Step 1: create tables and synonyms

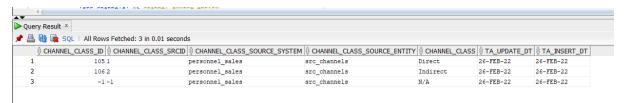
```
Example of code:
DROP TABLE bl_3nf.ce_promotion_categories CASCADE CONSTRAINTS;
CREATE TABLE bl_3nf.ce_promotion_categories (
  promotion_category_id
                                             NOT NULL,
                            NUMBER(38)
                             VARCHAR2(50 CHAR) NOT NULL,
  promotion category srcid
  promotion category source system VARCHAR2(50 CHAR) NOT NULL.
  promotion_category_source_entity VARCHAR2(50 CHAR) NOT NULL,
                           VARCHAR2(50 CHAR) NOT NULL,
  promotion category
  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;
DROP TABLE bl_3nf.ce_promotions_scd CASCADE CONSTRAINTS;
CREATE TABLE bl_3nf.ce_promotions_scd (
  promotion_id
                    NUMBER(38)
                                    NOT NULL.
  promotion srcid
                     VARCHAR2(50 CHAR) NOT NULL,
  promotion_source_system VARCHAR2(50 CHAR) NOT NULL,
  promotion_source_entity VARCHAR2(50 CHAR) NOT NULL.
                      VARCHAR2(50 CHAR) NOT NULL,
  promotion name
                                        NOT NULL.
  promotion category id
                       NUMBER(38)
                                  NOT NULL,
  begin_sop_DT
                     DATE
  end_eop_DT
                     DATE
                                  NOT NULL.
                  VARCHAR2(50 char) NOT NULL,
  is_active
  cost
                NUMBER(15,2)
                                 NOT NULL,
  TA UPDATE DT
                       DATE
                                     NOT NULL.
                                    NOT NULL
  TA INSERT DT
                       DATE
);
ALTER TABLE bl_3nf.ce_promotions_scd
  ADD CONSTRAINT ce_promotions_scd_pk
  PRIMARY KEY ( promotion_id, begin_sop_dt );
ALTER TABLE bl 3nf.ce promotions scd
  ADD CONSTRAINT ce_promotions_scd_ce_promotion_class_fk
  FOREIGN KEY ( promotion_category_id )
  REFERENCES bl_3nf.ce_promotion_categories ( promotion_category_id );
```

Code for the rest tables in folder scripts

Step 2: Fill tables

```
I have used Merge function. I loaded data from 2 sources for ce_channels and
ce customers tables. For the rest tables I have choose dominant source - personnel sales
and loaded data only from this source.
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
     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
```

SELECT * FROM ce_channel_classes;



SELECT * FROM ce_channels;

	CHANNEL_ID		♦ CHANNEL_SOURCE_SYSTEM		♦ CHANNEL_DESCRIPTION		↑ TA_UPDATE_DT	TA_INSERT_DT
1	125	3	company_sales	src_channels	Catalog	106	26-FEB-22	26-FEB-22
2	126	1	company_sales	src_channels	B2B	105	26-FEB-22	26-FEB-22
3	127	1	personnel_sales	src_channels	Direct Sales	105	26-FEB-22	26-FEB-22
4	128	2	company_sales	src_channels	Partner	105	26-FEB-22	26-FEB-22
5	129	4	company_sales	src_channels	Internet	106	26-FEB-22	26-FEB-22
6	130	2	personnel_sales	src_channels	Tele Sales	105	26-FEB-22	26-FEB-22
7	131	3	personnel_sales	src_channels	Catalog	106	26-FEB-22	26-FEB-22
8	132	4	personnel_sales	src_channels	Internet	106	26-FEB-22	26-FEB-22
9	-1	-1	personnel sales	src channels	N/A	-1	26-FEB-22	26-FEB-22

SELECT * FROM ce_promotion_categories;

{	PROMOTION_CATEGORY_ID	PROMOTION_CATEGORY_SRCID	♦ PROMOTION_CATEGORY_SOURCE_SYSTEM	# PROMOTION_CATEGORY_SOURCE_ENTITY	♦ PROMOTION_CATEGORY	↑ TA_UPDATE_DT	♦ TA_INSERT_DT
1	71	3	personnel_sales	src_promotions	post	26-FEB-22	26-FEB-22
2	72	L	personnel_sales	src_promotions	NO PROMOTION	26-FEB-22	26-FEB-22
3	73	3	personnel_sales	src_promotions	ad news	26-FEB-22	26-FEB-22
4	74	2	personnel_sales	src_promotions	TV	26-FEB-22	26-FEB-22
5	75	5	personnel_sales	src_promotions	internet	26-FEB-22	26-FEB-22
6	-1	-1	personnel_sales	src_promotions	N/A	26-FEB-22	26-FEB-22

SELECT * FROM ce_promotions_scd;

-	PROMOTION_ID 0	PROMOTION_SOU	♦ PROMOTION_SOUR	₱ PROMOTION_NAME	∯ P	♦ BEGIN_SOP_DT			COST		↑ TA_INSERT_DT
1	561	personnel_sales	src_promotions	NO PROMOTION #	72	01-JAN-99	01-JAN-99	inactive	0	26-FEB-22	26-FEB-22
2	57 2	personnel_sales	src_promotions	post promotion #20-33	71	15-SEP-20	15-NOV-20	inactive	77200	26-FEB-22	26-FEB-22
3	58 33	personnel_sales	src_promotions	internet promotion #29-64	75	31-MAR-21	30-JUN-21	inactive	9800	26-FEB-22	26-FEB-22
4	59 30	personnel_sales	src_promotions	TV promotion #12-61	74	28-APR-21	28-JUL-21	inactive	91600	26-FEB-22	26-FEB-22
5	60 5	personnel_sales	src_promotions	everyday low price	73	01-JUN-20	01-JUN-21	inactive	0	26-FEB-22	26-FEB-22
6	-1 -1	personnel_sales	src_promotions	N/A	-1	31-DEC-99	31-DEC-99	inactive	-1	26-FEB-22	26-FEB-22
	1 2 3 4 5	1 561 2 572 3 5833 4 5930 5 605	1 561 personnel_sales 2 572 personnel_sales 3 5833 personnel_sales 4 5930 personnel_sales 5 605 personnel_sales	1 561 personnel_sales src_promotions 2 572 personnel_sales src_promotions 3 5833 personnel_sales src_promotions 4 5930 personnel_sales src_promotions 5 605 personnel_sales src_promotions	1 561 personnel_sales src_promotions NO PROMOTION # 2 572 personnel_sales src_promotions post promotion #20-33 3 5833 personnel_sales src_promotions internet promotion #29-64 4 55930 personnel_sales src_promotions TV promotion #12-61 5 605 personnel_sales src_promotions everyday low price	1 561 personnel_sales src_promotions NO PROMOTION # 72 2 572 personnel_sales src_promotions post promotion #20-33 71 3 5833 personnel_sales src_promotions internet promotion #29-64 74 4 5930 personnel_sales src_promotions TV promotion #12-61 74 5 605 personnel_sales src_promotions everyday low price 73	1 561 personnel_sales src_promotions NO FROMOTION # 72.01-JAN-99 2 572 personnel_sales src_promotions post-promotion #20-33 71.15-5EP-20 3 5833 personnel_sales src_promotions internet promotion #29-64 75.31-MAR-21 4 5890 personnel_sales src_promotions TV promotion #12-61 74.28-AER-21 5 605 personnel_sales src_promotions everyday low price 73.01-JUN-20	1 561 personnel_sales src_promotions NO FROMOTION # 72.01-JAN-99 01-JAN-99 2 572 personnel_sales src_promotions post promotion #20-33 7115-5EP-20 15-MOV-20 3 5833 personnel_sales src_promotions internet promotion #29-64 7531-MAR-21 30-JUN-21 4 5830 personnel_sales src_promotions TV promotion #12-61 74.28-AFR-21 28-JUL-21 5 605 personnel_sales src_promotions everyday low price 73.01-JUN-20 01-JUN-21	1 561 personnel_sales src_promotions NO PROMOTION # 72.01-JAN-99 01-JAN-99 inactive 2 572 personnel_sales src_promotions post promotion #20-33 7115-5EP-20 15-NOV-20 inactive 3 5833 personnel_sales src_promotions internet promotion #29-64 7531-MAR-21 30-JUN-21 inactive 4 5890 personnel_sales src_promotions TV promotion #12-61 7428-AFR-21 28-JUL-21 inactive 5 605 personnel_sales src_promotions everyday low price 73.01-JUN-20 01-JUN-21 inactive	1 561 personnel_sales src_promotions NO FROMOTION # 7201-JAN-99 1nactive 0 2 572 personnel_sales src_promotions post promotion #20-33 7115-5EP-20 15-NOV-20 inactive 77200 3 5833 personnel_sales src_promotions internet promotion #29-64 7531-MAR-21 30-JUN-21 inactive 9800 4 5930 personnel_sales src_promotions TV promotion #12-61 7428-AFR-21 28-JUN-21 inactive 91600 5 605 personnel_sales src_promotions everyday low price 7301-JUN-20 01-JUN-21 inactive	1 561 personnel_sales src_promotions NO FROMOTION # 72.01-JAN-99 01-JAN-99 inactive 0.26-FEB-22 2 572 personnel_sales src_promotions post promotion #20-33 71.15-SEP-20 15-NOV-20 inactive 77200.26-FEB-22 3 58.33 personnel_sales src_promotions internet promotion #20-64 75.31-MAR-21 30-JUN-21 inactive 9800.26-FEB-22 4 59.30 personnel_sales src_promotions TV promotion #12-61 74.28-AFR-21 28-JUL-21 inactive 91600.26-FEB-22 5 60.5 personnel_sales src_promotions everyday low price 73.01-JUN-20 01-JUN-21 inactive 0.26-FEB-22

SELECT * FROM ce_brands;

PROD	DUCT_BRAND_ID PRODUCT_BRAND_SR	CID # PRODUCT_BRAND_SOURCE_SYSTEM	PRODUCT_BRAND_SOURCE_ENTITY			TA_INSERT_DT
1	6057 108	personnel_sales	src_products	Redken	26-FEB-22	26-FEB-22
2	6058 109	personnel_sales	src_products	Lavera	26-FEB-22	26-FEB-22
3	6059 110	personnel_sales	src_products	Eisenberg	26-FEB-22	26-FEB-22
4	6060 111	personnel_sales	src_products	Fusion Beauty	26-FEB-22	26-FEB-22
5	6061 112	personnel_sales	src_products	Josie Maran	26-FEB-22	26-FEB-22
6	6062 113	personnel_sales	src_products	MAC	26-FEB-22	26-FEB-22
7	6063 114	personnel_sales	src_products	Poshe	26-FEB-22	26-FEB-22
8	6064 115	personnel_sales	src_products	Illuminare	26-FEB-22	26-FEB-22
9	6065 116	personnel_sales	src_products	POP Beauty	26-FEB-22	26-FEB-22
10	6066 117	personnel_sales	src_products	AMOREPACIFIC	26-FEB-22	26-FEB-22
11	6067 118	personnel_sales	src_products	e.l.f.	26-FEB-22	26-FEB-22
12	6068 119	personnel_sales	src_products	Tom Ford Beauty	26-FEB-22	26-FEB-22
13	6069 120	personnel_sales	src_products	KIKO	26-FEB-22	26-FEB-22
14	6070 121	personnel sales	arc products	LUSH	26-FEB-22	26-FEB-22

SELECT * FROM ce_product_types;

	♦ PRODUCT_TYPE_ID		₱ PRODUCT_TYPE_S	OURCE_SYSTEM	♦ PRODUCT_TYPE_SOURCE_ENTITY	₱ PRODUCT_TYPE	TA_UPDATE_DT	↑ TA_INSERT_DT
1	1693	109	personnel_sales		src_products	Lengthening	26-FEB-22	26-FEB-22
2	1694	110	personnel_sales		src_products	Tools	26-FEB-22	26-FEB-22
3	1695	111	personnel_sales		src_products	Hair Spray	26-FEB-22	26-FEB-22
4	1696	112	personnel_sales		src_products	Tinted	26-FEB-22	26-FEB-22
5	1697	113	personnel_sales		src_products	Shampoo	26-FEB-22	26-FEB-22
6	1698	114	personnel_sales		src_products	Volumizing	26-FEB-22	26-FEB-22
7	1699	115	personnel_sales		src_products	Tweezers	26-FEB-22	26-FEB-22
8	1700	116	personnel_sales		src_products	Sunscreen	26-FEB-22	26-FEB-22
9	1701	117	personnel_sales		src_products	Natural	26-FEB-22	26-FEB-22
10	1702	118	personnel_sales		src_products	Powder	26-FEB-22	26-FEB-22
11	1703	119	personnel_sales		src_products	Pressed	26-FEB-22	26-FEB-22
12	1704	120	personnel_sales		src_products	with SPF	26-FEB-22	26-FEB-22
13	1705	121	personnel_sales		src_products	Gel	26-FEB-22	26-FEB-22

SELECT * FROM ce_products;

		UCT_SRCID PRODUCT_SOURCE_SYSTEM	и ∯ PRODUCT 🦙	⊕ PRODUCT	⊕ UNIT_PRICE	⊕ UNIT_COST	# PRODUCT_BRAND_ID	# PRODUCT_TYPE_ID TA_UPDATE_DT	
1	10849676	personnel_sales	src_products	Long-Wear Gel Eyeliner	792.51	634.01	6249	1705 26-FEB-22	26-FEB-22
2	108497 77	personnel_sales	src_products	Metallic Eye Shadow	941.92	753.54	6249	1702 26-FEB-22	26-FEB-22
3	108498 78	personnel_sales	src_products	Metallic Long-Wear Cream Shadow	277.17	221.74	6249	1602 26-FEB-22	26-FEB-22
4	108499 79	personnel_sales	src_products	Nail Lacquer	188.56	150.85	6249	1613 26-FEB-22	26-FEB-22
5	108500 80	personnel_sales	src_products	Natural Brow Shaper & hair Touch up	93.72	74.98	6249	1705 26-FEB-22	26-FEB-22
6	10850181	personnel_sales	src_products	No Smudge Mascara	1103.34	882.67	6249	1693 26-FEB-22	26-FEB-22
7	10850282	personnel_sales	src_products	Pot Rouge for Lips & Cheeks	2139.74	1711.79	6249	1598 26-FEB-22	26-FEB-22
8	10850383	personnel_sales	src_products	Powder	1243.86	995.09	6249	1652 26-FEB-22	26-FEB-22
9	108504 84	personnel_sales	src_products	Protective Face Lotion	1762.01	1409.61	6249	1612 26-FEB-22	26-FEB-22
10	108505 85	personnel_sales	src_products	Retouching Powder	1457.99	1166.39	6249	1646 26-FEB-22	26-FEB-22
11	10850686	personnel_sales	src_products	Retractable Lip	412.67	330.14	6249	1641 26-FEB-22	26-FEB-22
12	10850787	personnel_sales	src_products	Rich Color Gloss	1201.32	961.06	6249	1667 26-FEB-22	26-FEB-22
13	108508 88	personnel_sales	src_products	Rich Lip Color	1635.03	1308.02	6249	1674 26-FEB-22	26-FEB-22

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_	COUNTRY_ID 0 COUNT						RY		TE_DT ⊕ TA_IN	
2	413 18	-	nnel_sales		rc_countries	Poland		26-FEB-22 26-FEB-22	26-FEB- 26-FEB-	
3	414 23		nnel_sales		rc_countries	South Af	rica			
4	415 8 416 14		nnel_sales		rc_countries	Germany		26-FEB-22 26-FEB-22	26-FEB- 26-FEB-	
5	417 22	-	nnel_sales nnel sales		rc_countries rc countries	Japan United S	tates of America		26-FEB-	
6	417 22		nnel_sales		rc_countries	Saudi Ar		26-FEB-22	26-FEB-	
7	419 16		nnel_sales		rc_countries	The Neth		26-FEB-22	26-FEB-	
8	420 20		nnel_sales		rc countries	Turkey	cilanas	26-FEB-22	26-FEB-	
9	421 2		nnel sales		rc_countries	Italy		26-FEB-22	26-FEB-	
10	422 5		nnel_sales		rc_countries	Argentin	a	26-FEB-22	26-FEB-	
	ECT * FRON	-	_	5.		mgenon		20 125 22	20 125	
1	STATE_ID ♦ STATE	SRCID STATE	_SOURCE_S	SYSTEM ⊕ STA	ATE_SOURCE_ENT	ΓΙΤΥ ∯ STATE_NAM	E COUNTRY_ID		TE_DT 🖟 TA_II	NSERT_DT
1	101 15	personne	el_sales	src_s	tores	CA	417	26-FEB-22	26-FEB	-22
2	102 16	personne	el_sales	src_s	tores	1	418	26-FEB-22	26-FEB	-22
3	1031	personne	el_sales	src_s	tores	MD	424	26-FEB-22	26-FEB	-22
4	104 12	personne	el_sales	src s	stores	NM	417	26-FEB-22	26-FEB	-22
5	105 6	personne	el sales	src s	tores	84	428	26-FEB-22	26-FEB	-22
6	106 11	personne	_		tores	NY		26-FEB-22	26-FEB	
7	107 5	personne	-		tores	5		26-FEB-22	26-FEB	
8	107 5	personne	_		tores	SN		26-FEB-22	26-FEB	
9	109 18	personne	_		tores	QLD		26-FEB-22	26-FEB	
EL	ECT * FROI	_	_	_						
\$	CITY_ID CITY_SF	RCID & CITY_SOL	JRCE_SYST	EM ∯ CITY_S	SOURCE_ENTITY	⊕ CITY	STATE_ID ⟨	TA_UPDAT	E_DT TA_I	NSERT_D
1	161 15	personnel_	sales	src_sto	res	New Brunswick	118 2	6-FEB-22	26-FEB	-22
2	162 16	personnel	sales	src sto	res	Charlotte	111 2	6-FEB-22	26-FEB	-22
3	163 1	personnel	-	src sto		Madrid		6-FEB-22	26-FEB	
-			•	_						
4	164 12	personnel_	_	src_sto	res	Albany		6-FEB-22	26-FEB	
5	165 6	personnel_	sales	src_sto	res	Kastrup	105 2	6-FEB-22	26-FEB	-22
6	166 11	personnel_	sales	src_sto	res	New York	106 2	6-FEB-22	26-FEB	-22
7	167 23	personnel	sales	src_sto:	res	Istanbul	110 2	6-FEB-22	26-FEB	-22
8	168 25	personnel	sales	src sto	res	Midrand	112 2	6-FEB-22	26-FEB	-22
9	169 5	personnel	•	src sto		Christchurch	107.2	6-FEB-22	26-FEB	-22
-		-	-							
10	170 7	personnel_	-	src_sto		Leipzig		6-FEB-22	26-FEB	
11 	ECT * FROI	personnel_ M ce add	-	src_sto	res	Tarzana	101 2	6-FEB-22	26-FEB	-22
		ADDRESS_SOURCE_SYSTEM		,	ET_ADDRESS			POSTAL CODE	CITY_ID (TA_UPDAT	E_DT (TA_IN
ı										
2		rsonnel_sales	src_stores	Plaza	Canovas del Castillo 5			28005	163 26-FEB-22	
3		rsonnel_sales	src_stores	Plaza Prince				28005 28008		26-FEB-
	343 3 per	_		Plaza Prince Paseo	sa 5			28005	163 26-FEB-22 163 26-FEB-22	26-FEB- 26-FEB-
	343 3 per 344 4 per 345 5 per	rsonnel_sales rsonnel_sales rsonnel_sales rsonnel_sales	src_stores src_stores src_stores src_stores	Plaza Prince Paseo Rambla Gran v	sa 5 de Gracia 97 Canaletes 109 ia Marques del Turia A	ve, 49		28005 28008 8008 8002 46002	163 26-FEB-22 163 26-FEB-22 181 26-FEB-22 181 26-FEB-22 185 26-FEB-22	26-FEB- 26-FEB- 26-FEB- 26-FEB-
	343 3 per 344 4 per 345 5 per 346 6 per	rsonnel_sales rsonnel_sales rsonnel_sales	src_stores src_stores src_stores	Plaza Prince Paseo Rambla Gran V	sa 5 de Gracia 97 Canaletes 109	ve, 49		28005 28008 8008 8002	163 26-FEB-22 163 26-FEB-22 181 26-FEB-22 181 26-FEB-22	26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB-
	3433 per 3444 per 3455 per 3466 per 3477 per 3488 per	rsonnel_sales rsonnel_sales rsonnel_sales rsonnel_sales rsonnel_sales rsonnel_sales	src_stores src_stores src_stores src_stores src_stores src_stores src_stores	Plaza Prince Paseo Rambla Gran v San Vi 6 Bunn	sa 5 de Gracia 97 Canaletes 109 ia Marques del Turia A cente, 44 y St, Lower Hutt eld shopping centre, R	مبنی : iccarton Rd, 1022		28005 28008 8008 8002 46002 46002 5011	163 26-FEB-22 163 26-FEB-22 181 26-FEB-22 181 26-FEB-22 185 26-FEB-22 185 26-FEB-22 186 26-FEB-22 169 26-FEB-22	26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB-
	3433 per 3444 per 3455 per 3466 per 3477 per 3488 per 3499 per	csonnel_sales csonnel_sales csonnel_sales csonnel_sales csonnel_sales csonnel_sales csonnel_sales csonnel_sales	src_stores src_stores src_stores src_stores src_stores src_stores	Plaza Prince Paseo Rambla Gran v San Vi 6 Bunn Westfi Luftha	sa 5 de Gracia 97 Canaletes 109 ia Marques del Turia À cente, 44 y St, Lower Hutt	iccarton Rd, 1022 : مبنی inal 2 - Landside		28005 28008 8008 8002 46002 46002 5011	163 26-FEB-22 163 26-FEB-22 181 26-FEB-22 181 26-FEB-22 185 26-FEB-22 185 26-FEB-22 186 26-FEB-22 169 26-FEB-22 165 26-FEB-22	26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB-
	3433 per 3444 per 3455 per 3466 per 3477 per 3488 per 3499 per 35010 per	rsonnel_sales rsonnel_sales rsonnel_sales rsonnel_sales rsonnel_sales rsonnel_sales	src_stores src_stores src_stores src_stores src_stores src_stores src_stores	Plaza Prince Paseo Rambla Gran v San Vi 6 Bunn Westfi Luftha	sa 5 de Gracia 97 Canaletes 109 ia Marques del Turia À cente, 44 y St, Lower Hutt eld shopping centre, R vnsboulevarden 6, Term	iccarton Rd, 1022 : مبنی inal 2 - Landside		28005 28008 8008 8002 44602 46002 5011 5011	163 26-FEB-22 163 26-FEB-22 181 26-FEB-22 181 26-FEB-22 185 26-FEB-22 185 26-FEB-22 186 26-FEB-22 169 26-FEB-22	26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB-
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 EL	343 3 per 344 4 per 345 5 per 345 5 per 346 6 per 347 7 per 349 9 per 35010 per 35212 per 35212 per 35212 per 4 1 15 242 16 243 32 244 33 245 39 246 1 247 12 248 44 249 41 250 42 251 6 252 11 253 23 254 25 ECT * FROI MMER, ID © LOIS © LOISTOMER	reconnel_sales reconnel_personnel personnel personnel personnel personnel personnel personnel personnel reconnel	src_stores	Plaza Prince Paseo Rambla Gran v San V: 6 Bunn Westf: Luftha Luftha Luftha Willy- GRIBBA STORE STC_STO	sa 5 de Gracia 97 de Gracia 97 Canaletes 109 ia Marques del Turia À cente, 44 y St. Lower Butt eld shopping centre, B vusboulevarden 6, Term vusboulevarden 6, Term vusboulevarden 6, Term Frandr-Plata 12 SOURCE_ENTITY TES	PHONE 1022	\$ ADDRESS_ID \$ T. 355 26- 356 26- 374 26- 375 26- 381 26- 381 26- 382 26- 383 26- 384 26- 384 26- 385 26- 386 26- 386 26- 386 26- 386 26- 386 26- 386 26- 386 26- 386 26- 386 26- 386 26- 386 26- 386 26-	28005 28008 8008 8008 8000 8000 46002 46002 5011 5011 5011 2770 4109 4009 4109 4009 4109 4009 FEB-22	163 26-FER-22 163 26-FER-22 181 26-FER-22 181 26-FER-22 181 26-FER-22 182 26-FER-22 162 26-FER-22 163 26-FER-22 163 26-FER-22	26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 76-FEB
1 2 3 4 5 6 7 8 9 10 11 12 13 14 EL	343 3 per 3444 per 3444 per 3455 per 3455 per 3477 per 3408 per 35010 per 350112 per 35212 per 35313 ** FRON STORE_ID	coonel_sales cronnel_sales personnel	arc stores	Plaza Prince Pasco	sa 5 de Gracia 97 de Gracia 97 Canaletes 109 ta Marques del Turia À conte, 44 y St., Lower Hutt eld shopping centre, P vnaboulevarden 6, Terr vnaboulevarden 6, Terr Stradt Flatt el Stradt Flatt el STRASSE 14 Renant-Platt 12 ESOURCE_ENTITY res	PHONE	ADDRESS_ID	28005 28008 8008 8008 8000 46002 46002 46002 16002 1700 2770 4109 44084 4109 44084 4	163 26-TER-22 163 26-TER-22 181 26-TER-22 181 26-TER-22 181 26-TER-22 182 26-TER-22 182 26-TER-22 162 26-TER-22 170 26-TER-22 170 26-TER-22 170 26-TER-22	26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 7-FEB-
1 2 3 4 5 6 7 8 9 10 11 12 13 14 EL	343 3 per 3444 per 3444 per 3455 per 3455 per 3477 per 3498 per 35010 per 35011 per 35012 per 35112 per 41 15 424 16 243 32 244 33 245 39 246 1 247 12 248 44 249 41 250 42 251 6 252 11 253 23 254 25 ECT * FROI MER ID (**CUSTOMER) (*	coonnel_sales cronnel_sales personnel	arc stores	Plaza Prince Pasco	sa 5 de Gracia 97 de Gracia 97 Canaletes 109 ta Marques del Turia À conte, 44 y St., Lower Hutt eld shopping centre, P vnaboulevarden 6, Term vnaboulevarden 6, Term vnaboulevarden 6, Term vnaboulevarden 12 ESOURCE_ENTITY TESS STRASSE 14 Renand-Platz 12 ESOURCE_ENTITY TESS TESS TESS TESS TESS TESS TESS TE	PHONE	ADDRESS_ID	28005 28008 8008 8008 8000 80002 46002 46002 5011 5011 2770 4109 44084 4	163 26-TER-22 163 26-TER-22 181 26-TER-22 181 26-TER-22 181 26-TER-22 185 26-TER-22 185 26-TER-22 169 26-TER-22 169 26-TER-22 170 26-TER-22 170 26-TER-22 170 26-TER-22 170 26-TER-22	26-FEB-28-26-FEB-28-26
1 2 3 4 5 6 7 8 9 10 11 12 13 14 EL	343 3 per 3444 per 3444 per 3455 per 3455 per 3477 per 3498 per 35010 per 35011 per 35111 per 35212 per 241 15 242 16 243 32 244 33 245 39 246 1 247 12 248 44 249 41 250 42 251 6 252 11 253 23 254 25 ECT * FROI MER ID (CUSTOMER) © CUSTOMER BTC 13418624 personnel at ST	connel_sales cronnel_sales personnel	arc stores	Plaza Prince Paseo Rambla Granv San Vi 6 Bunn Westfi Luftha Luftha Hilly GRIPM STORE STC_STO	sa 5 de Gracia 97 de Gracia 97 Canaletes 109 ta Marques del Turia À conte, 44 y St., Lower Hutt eld shopping centre, P vnaboulevarden 6, Term vnaboulevarden 6, Term vnaboulevarden 6, Term vnaboulevarden 6, Term vnaboulevarden 12 ESOURCE_ENTITY TESS TESS TESS TESS TESS TESS TESS TE	PHONE	ADDRESS_ID	28005 28008 8008 8008 8000 80002 46002 46002 5011 5011 2770 2770 4109 44084 44	163 26-TER-22 163 26-TER-22 181 26-TER-22 181 26-TER-22 181 26-TER-22 185 26-TER-22 185 26-TER-22 169 26-TER-22 169 26-TER-22 170 26-TER-22 170 26-TER-22 170 26-TER-22 170 26-TER-22	26-FEB-26
1 2 3 4 5 5 6 6 7 8 8 9 10 11 12 13 14 EL	343 3 per 344 4 per 344 5 per 345 5 per 346 6 per 347 7 per 349 9 per 349 9 per 35010 per 35212 per 35212 per 35212 per 4 1 15 242 16 243 32 244 33 245 39 246 1 247 12 248 44 249 41 250 42 251 6 252 11 253 23 254 25 ECT * FROI MMER D © LOSS STOMER 0 MMER D © LOSS STOMER 0 134186 24 personent arc 134187 25 personent arc 134189 26 personent arc	reconnel_sales reconnel_personnel personnel personnel personnel personnel personnel personnel personnel reconnel reco	src_stores	Plaza Prince Paseo Rambla Granv San Vi 6 Bunn Westfi Luftha Luftha Hilly GRIPM STORE STC_STO	sa 5 de Gracia 97 de Gracia 97 Canaletes 109 ia Marques del Turia À conte, 44 y St., Lower Hutt eld shopping centre, R vnsboulevarden 6, Terr vnsboulevarden 6, Terr Smant-Plata 12 SOURCE_ENTITY TES	PHONE	ADDRESS_ID	28005 28008 8008 8008 8000 8000 46002 46002 9011 9011 9011 9011 9011 9011 9011 9	163 36-FER-22 163 26-FER-22 181 26-FER-22 181 26-FER-22 182 26-FER-22 182 26-FER-22 165 26-FER-22 165 26-FER-22 170 26-FER-22	26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 26-FEB- 7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 E	343 3 per 344 4 per 344 6 per 345 5 per 346 6 per 347 7 per 349 9 per 35010 per 35212 per 35313 FRON STORE_ID	reconnel_sales reconnel_personnel_ personnel_ personnel_ personnel_ personnel_ personnel_ personnel_ personnel_ personnel_ reconnel_personnel_ reconnel_personnel_personnel_ reconnel_personnel_personnel_ reconnel_personnel_personnel_ reconnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_personnel_pers	src_stores	Piaza Prince Paseo	sa 5 de Gracia 97 de Gracia 97 canaletes 109 ia Marques del Turia À conte, 44 y St., Lower Hutt eld shopping centre, R vnaboulevarden e, Terr vnaboulevarden e, Terr vnaboulevarden e, Terr SEME STRASSE 14 Rrandt-Plata 12 SOURCE_ENTITY TES	PHONE	ADDRESS_ID	28005 28008 8008 8008 8000 8000 46002 46002 46002 9101 9101 9101 9109 9109 9109 9109 9	163 36-FER-22 163 26-FER-22 181 26-FER-22 181 26-FER-22 182 26-FER-22 182 26-FER-22 162 26-FER-22 162 26-FER-22 170 26-FER-22	TA_INSERT_DT 6~TE3-22 6~TE3-22 6~TE3-22 6~TE3-22 6~TE3-22 6~TE3-22 6~TE3-22 6~TE3-22 6~TE3-22
1 1 2 3 4 5 6 7 8 9 110 111 12 13 14 EL	343 3 per 3444 per 3444 per 3455 per 3455 per 3477 per 3498 per 35010 per 35011 per 35012 per 35012 per 241 15 242 16 243 32 244 33 245 39 246 1 247 12 248 44 249 41 249 41 250 42 251 6 252 11 253 23 254 25 ECT ★ FROI MER ID CUS	resonnel_sales resonnel_personnel personnel	arc stores	Plaza Prince Paseo	sa 5 de Gracia 97 de Gracia 97 Canaletes 109 ta Marques del Turia À conte, 44 y St., Lower Hutt eld shopping centre, P vnaboulevarden 6, Term vnaboulevarden 6, Term vnaboulevarden 6, Term vnaboulevarden 12 ESOURCE_ENTITY TESS STRASSE 14 Renand-Platz 12 ESOURCE_ENTITY TESS TESS TESS TESS TESS TESS TESS TE	PHONE	ADDRESS_ID	28005 28008 8008 8008 8000 80002 46002 46002 46002 101 27770 27770 4109 4109 44084 44084 44084 44084 44088 FEB-22 FEB-24 FEB-22 FEB-24 FEB-25 FEB-25 FEB-26 FEB-27 FEB-27 FEB-28 FEB-28 FEB-29 FEB-29 FEB-29 FEB-29 FEB-29 FEB-20 FEB-20 FEB-20 FEB-20 FEB-20 FEB-20 FEB-20 FEB-21 FEB-21 FEB-21 FEB-22 FEB-22 FEB-21 FEB-22 FEB-21 FEB-21 FEB-21 FEB-22 FEB-21 FEB-22 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-22 FEB-22 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-22 FEB-22 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-22 FEB-22 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-22 FEB-22 FEB-21 FEB-22 FEB-22 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-21 FEB-22 FEB-22 FEB-22 FEB-21	163 26-TER-22 163 26-TER-22 181 26-TER-22 181 26-TER-22 181 26-TER-22 185 26-TER-22 185 26-TER-22 165 26-TER-22 165 26-TER-22 165 26-TER-22 170 26-TER-22 170 26-TER-22 170 26-TER-22 16-TER-22 26-TER-22	26-FEB-26

3 1341823 personnel. src_employees Ahner Everett M
4 1341892 do company_m. src_employees MA M/A M/A
5 1341892 do personnel. src_employees Ahner Everett M
6 1341892 opersonnel. src_employees Ahner Everett M
7 1341892 opersonnel. src_employees Ahner Everett M
8 1341892 opersonnel. src_employees Ahner Everett M
9 1341892 opersonnel. src_employees Ahner Menney M
10 1341893 opersonnel. src_employees Ahner Menney M
11 1341893 opersonnel. src_employees Ahner Menney M
12 13418932 opersonnel. src_employees Ahner Menney M
13 13418932 personnel. src_employees Ahner Menney M
13 13418932 personnel. src_employees
SELECT * FROM Ce_positions;

	♦ POSITION_ID	POSITION_SRCID			♦ POSITION		∜ TA_INSERT_DT
1	41	3	personnel_sales	src_employees	seller	26-FEB-22	26-FEB-22
2	42	2	personnel_sales	src_employees	cashier	26-FEB-22	26-FEB-22
3	43	1	personnel_sales	src_employees	manager	26-FEB-22	26-FEB-22
4	-1	-1	personnel_sales	src_employees	N/A	26-FEB-22	26-FEB-22

SELECT * FROM ce_employees;

	0 EM 0 E	EMPLOYEE_SOUR.	() EMPLOYEE_SOU	FIRST_NAI	ME & LAST_NAME	0 DAY_0	PO PHONE	() EMAIL	() ADDRESS	© COUNTRY_ID © TA_UPDATE_DT	TA_INSERT_DT
1	662 42	personnel_sales	arc_employees	Henry	Simpson Henry	31-AUG-68	41 7-228-154-5724	Henry_Simpson13471815708jiman.org	Delft, 97 South Crittenden Avenue	417 26-FEB-22	26-FEB-22
2	663 43	personnel_sales	src_employees	Bryon	Bryant Bryon	24-JUL-73	42 5-116-000-4106	Bryon_Bryant12412217758kideod.biz	Blumenau, 107 East Towner Avenue	417 26-FEB-22	26-FEB-22
3	664 44	personnel_sales	src_employees	Jolene	Addley Jolene	24-JAN-84	437-246-655-1554	Jolene_Addley848609427@hourpy.biz	Ruela Lumpur, 17 Panola Court	418 26-FEB-22	26-FEB-22
4	665 45	personnel_sales	arc_employees	Javier	Gibbons Javier	29-APR-92	41 0-356-745-5327	Javier_Gibbons1078350082@brety.org	Wroclaw, 17 South Crittenden Court	418 26-FEB-22	26-FEB-22
5	666 46	personnel_sales	arc_employees	Ramon	Walker Ramon	19-SEP-72	42 2-035-670-2751	Ramon_Walker2115855530@irrepsy.com	Krakow, 37 South Towner Street	422 26-FEB-22	26-FEB-22
6	667 47	personnel_sales	src_employees	Luke	Ranks Luke	29-JUN-05	41 2-026-663-8644	Luke_Ranks6119749848yahoo.com	Wellington, 67 South Breckinridge Avenue	422 26-FEB-22	26-FEB-22
7	668 48	personnel_sales	src_employees	Nicole	Nicholls Nicole	09-SEP-64	42 4-853-084-5747	Nicole_Nicholls1613216810@gompie.com	Enschede, 107 Breckinridge Avenue	422 26-FEB-22	26-FEB-22
8	669 49	personnel_sales	arc_employees	Macy	Uttridge Macy	06-0CT-87	43 5-455-628-3817	Macy_Uttridge1521187196@vetan.org	Waddinxveen, 107 North Panola Avenue	426 26-FEB-22	26-FEB-22
9	670.50	personnel_sales	src_employees	Daron	Fleming Daron	21-MAY-63	41 0-182-172-6633	Daron_Fleming19348050628ovock.tech	Georgetown, 117 West Crittenden Avenue	426 26-FEB-22	26-FEB-22
10	671 51	personnel_sales	src_employees	Aileen	Upton Aileen	28-FEB-66	427-433-487-4251	Aileen_Upton2028332453@sveldo.biz	Bristol, 27 South Mcpherson Boulevard	424 26-FEB-22	26-FEB-22
11	672 52	personnel_sales	src_employees	Valerie	Page Valerie	15-JUN-64	41 6-060-250-3532	Valerie_Page 1971521838@bretoux.com	Schimmert, 37 North Breckinridge Street	424 26-FEB-22	26-FEB-22
12	673 53	personnel_sales	arc_employees	Shannon	Leslie Shannon	19-MAY-07	42 0-582-403-1578	Shannon_Leslie61127713@elnee.tech	Almere, 47 East Panola Road	425 26-FEB-22	26-FEB-22
13	674 54	personnel_sales	src_employees	Lara	Walsh Lara	31-MAR-91	43 6-051-731-0510	Lara_Walsh96625198@twace.org	Santos, 67 West Goodhue Avenue	425 26-FEB-22	26-FEB-22
	02202			W. S. C. C.						100000000000000000000000000000000000000	

SELECT * FROM ce_sales;



1 CREATE OBJECTS FOR STAR SCHEMA

Step 1: create objects

```
drop table dim_channels CASCADE CONSTRAINTS;
CREATE TABLE dim_channels (
                  NUMBER(38) NOT NULL,
  channel_surr_id
  channel_id
                VARCHAR2(50) NOT NULL,
  source system
                  VARCHAR2(50) NOT NULL,
  source_entity
                 VARCHAR2(50) NOT NULL,
  channel_description VARCHAR2(50) NOT NULL,
  channel_class_id NUMBER(38) NOT NULL,
  channel_class
                 VARCHAR2(50) NOT NULL,
  ta_update_dt
                 DATE NOT NULL,
                DATE NOT NULL
  ta insert dt
);
```

ALTER TABLE dim_channels ADD CONSTRAINT dim_channels_pk PRIMARY KEY (channel_surr_id);

```
BL_DM.DIM_CHANNELS
P * CHANNEL SURR ID
                          NUMBER (38)
  * CHANNEL ID
                         VARCHAR2 (50 BYTE)
                     VARCHAR2 (50 BYTE)
VARCHAR2 (50 BYTE)
  * SOURCE_SYSTEM
 * SOURCE_ENTITY
 * CHANNEL_DESCRIPTION VARCHAR2 (50 BYTE)
  * CHANNEL_CLASS_ID
                         NUMBER (38)
 * CHANNEL_CLASS
                          VARCHAR2 (50 BYTE)
  * TA_UPDATE_DT
                          DATE
 * TA_INSERT_DT
DIM_CHANNELS_PK (CHANNEL_SURR_ID)
DIM_CHANNELS_PK (CHANNEL_SURR_ID)
```

```
drop table dim_customers CASCADE CONSTRAINTS;
CREATE TABLE dim_customers (
 customer_surr_id NUMBER(38) NOT NULL,
              VARCHAR2(50) NOT NULL,
 customer id
 source_system
               VARCHAR2(50) NOT NULL,
 source entity VARCHAR2(50) NOT NULL,
 first_name
             VARCHAR2(50) NOT NULL,
 last_name
              VARCHAR2(50) NOT NULL,
                 VARCHAR2(50) NOT NULL,
 company name
            VARCHAR2(50) NOT NULL.
 phone
 company_number VARCHAR2(50) NOT NULL,
            VARCHAR2(50) NOT NULL,
 gender
 yeart_of_birth NUMBER(38) NOT NULL,
 email
            VARCHAR2(50) NOT NULL,
 country
            VARCHAR2(50) NOT NULL.
             NUMBER(38) NOT NULL,
 country_id
 address
             VARCHAR2(50) NOT NULL,
 ta update dt DATE NOT NULL,
 );
```

ALTER TABLE dim_customers ADD CONSTRAINT dim_customers_pk PRIMARY KEY (customer_surr_id);

```
BL_DM.DIM_CUSTOMERS
 * CUSTOMER_SURR_ID
                            NUMBER (38)
  * CUSTOMER_ID VARCHAR2 (50 BYTE)
* SOURCE_SYSTEM VARCHAR2 (50 BYTE)
* SOURCE_ENTITY VARCHAR2 (50 BYTE)
* FIRST_NAME VARCHAR2 (50 BYTE)
  * LAST_NAME
  * LAST_NAME VARCHAR2 (50 BYTE)
* COMPANY_NAME VARCHAR2 (50 BYTE)
                            VARCHAR2 (50 BYTE)
                            VARCHAR2 (50 BYTE)
  * PHONE
    COMPANY_NUMBER
                            VARCHAR2 (50 BYTE)
    GENDER
                            VARCHAR2 (50 BYTE)
  * YEART_OF_BIRTH
                            NUMBER (38)
  * EMAIL
                            VARCHAR2 (50 BYTE)

    COUNTRY

                            VARCHAR2 (50 BYTE)
  * COUNTRY_ID
                            NUMBER (38)

    ADDRESS

                            VARCHAR2 (50 BYTE)
  * TA_UPDATE_DT
                            DATE
                            DATE
  * TA_INSERT_DT
b DIM_CUSTOMERS_PK (CUSTOMER_SURR_ID)
DIM_CUSTOMERS_PK(CUSTOMER_SURR_ID)
```

```
drop table dim employees CASCADE CONSTRAINTS;
CREATE TABLE dim_employees (
  employee_surr_id NUMBER(38) NOT NULL,
                VARCHAR2(50) NOT NULL,
  employee id
                 VARCHAR2(50) NOT NULL.
  source_system
  source_entity
                VARCHAR2(50) NOT NULL,
               VARCHAR2(50) NOT NULL.
  first_name
  last_name
                VARCHAR2(50) NOT NULL,
  day_of_birthday_dt DATE NOT NULL,
  position id
               NUMBER(38) NOT NULL,
  position
              VARCHAR2(50) NOT NULL,
  phone
              VARCHAR2(50) NOT NULL,
  email
              VARCHAR2(50) NOT NULL,
  address
               VARCHAR2(50) NOT NULL,
  country_id
               NUMBER(38) NOT NULL,
              VARCHAR2(50) NOT NULL,
  country
                DATE NOT NULL.
  ta_update_dt
  ta_insert_dt
               DATE NOT NULL
);
```

ALTER TABLE dim_employees ADD CONSTRAINT dim_employees_scd_pk PRIMARY KEY (employee surr id);

```
BL_DM.DIM_EMPLOYEES
P * EMPLOYEE_SURR_ID NUMBER (38)
    * EMPLOYEE_ID VARCHAR2 (50 BYTE)
    * SOURCE_SYSTEM VARCHAR2 (50 BYTE)
    * SOURCE_ENTITY VARCHAR2 (50 BYTE)
    * FIRST_NAME VARCHAR2 (50 BYTE)
    * LAST_NAME VARCHAR2 (50 BYTE)
    * DAY_OF_BIRTHDAY_DT DATE

        POSITION_ID
        NUMBER (38)

        POSITION
        VARCHAR2 (5

        PHONE
        VARCHAR2 (5

                                          VARCHAR2 (50 BYTE)
    * PHONE
                                          VARCHAR2 (50 BYTE)
                                        VARCHAR2 (50 BYTE)
    * EMAIL
                                    VARCHAR2 (50 BYTE)
NUMBER (38)
    * ADDRESS
   COUNTRY_ID

    COUNTRY

                                        VARCHAR2 (50 BYTE)
                                  DATE
    * TA_UPDATE_DT
     TA_INSERT_DT
                                         DATE
 DIM_EMPLOYEES_SCD_PK (EMPLOYEE_SURR_ID)
 DIM_EMPLOYEES_SCD_PK (EMPLOYEE_SURR_ID)
```

```
drop table dim products CASCADE CONSTRAINTS;
CREATE TABLE dim_products (
  product_surr_id NUMBER(38) NOT NULL,
              VARCHAR2(50) NOT NULL.
  product id
  source_system VARCHAR2(50) NOT NULL,
  source_entity VARCHAR2(50) NOT NULL,
               VARCHAR2(50) NOT NULL.
  product name
  product_brand_id NUMBER(38) NOT NULL,
  product brand VARCHAR2(50) NOT NULL,
  product_type_id NUMBER(38) NOT NULL,
  product_type
               VARCHAR2(50) NOT NULL,
  ta_update_dt DATE NOT NULL,
  ta insert dt DATE NOT NULL
);
```

ALTER TABLE dim_products ADD CONSTRAINT dim_products_pk PRIMARY KEY (product_surr_id);

```
BL_DM.DIM_PRODUCTS

P * PRODUCT_SURR_ID NUMBER (38)

* PRODUCT_ID VARCHAR2 (50 BYTE)

* SOURCE_SYSTEM VARCHAR2 (50 BYTE)

* SOURCE_ENTITY VARCHAR2 (50 BYTE)

* PRODUCT_NAME VARCHAR2 (50 BYTE)

* PRODUCT_BRAND_ID NUMBER (38)

* PRODUCT_BRAND VARCHAR2 (50 BYTE)

* PRODUCT_TYPE_ID NUMBER (38)

* PRODUCT_TYPE_ID NUMBER (38)

* PRODUCT_TYPE VARCHAR2 (50 BYTE)

* TA_UPDATE_DT DATE

* TA_INSERT_DT DATE

DIM_PRODUCTS_PK (PRODUCT_SURR_ID)

◆ DIM_PRODUCTS_PK (PRODUCT_SURR_ID)
```

```
drop table dim_promotions_scd CASCADE CONSTRAINTS;
CREATE TABLE dim_promotions_scd (
promotion_surr_id NUMBER(38) NOT NULL,
```

```
promotion id
                  VARCHAR2(50) NOT NULL,
                   VARCHAR2(50) NOT NULL,
  source_system
                  VARCHAR2(50) NOT NULL,
  source entity
                    VARCHAR2(50) NOT NULL,
  promotion_name
  promotion category id NUMBER(38) NOT NULL,
  promotion categoty VARCHAR2(50) NOT NULL.
  begin_sop_dt
                  DATE NOT NULL,
  end eop dt
                  DATE NOT NULL,
  is active
                VARCHAR2(50) NOT NULL,
  cost
               NUMBER(15, 2) NOT NULL,
                  DATE NOT NULL.
  ta_update_dt
  ta insert dt
                 DATE NOT NULL
);
```

ALTER TABLE dim_promotions_scd ADD CONSTRAINT dim_promotions_scd_pk PRIMARY KEY (promotion_surr_id);

```
BL DM.DIM PROMOTIONS SCD
 * PROMOTION SURR ID
                            NUMBER (38)
 * PROMOTION ID
                             VARCHAR2 (50 BYTE)
 * SOURCE_SYSTEM
                            VARCHAR2 (50 BYTE)
                             VARCHAR2 (50 BYTE)
 * SOURCE_ENTITY
   PROMOTION_NAME
                             VARCHAR2 (50 BYTE)
   PROMOTION_CATEGORY_ID
                             NUMBER (38)
 * PROMOTION_CATEGOTY
                            VARCHAR2 (50 BYTE)
 * BEGIN_SOP_DT
                             DATE
 * END EOP DT
                             DATE

    IS_ACTIVE

                             VARCHAR2 (50 BYTE)

    COST

                             NUMBER (15,2)
   TA_UPDATE_DT
                             DATE
   TA_INSERT_DT
                             DATE
DIM_PROMOTIONS_SCD_PK (PROMOTION_SURR_ID)
DIM_PROMOTIONS_SCD_PK (PROMOTION_SURR_ID)
```

```
drop table dim_stores CASCADE CONSTRAINTS;
CREATE TABLE dim stores (
             NUMBER(38) NOT NULL,
  store surr
            VARCHAR2(50) NOT NULL,
  store id
  source system VARCHAR2(50) NOT NULL,
  source entity VARCHAR2(50) NOT NULL,
  phone
            VARCHAR2(50) NOT NULL,
  street address VARCHAR2(50) NOT NULL,
  postal_code VARCHAR2(50) NOT NULL,
  city id
           NUMBER(38) NOT NULL,
  city
          VARCHAR2(50) NOT NULL,
            NUMBER(38) NOT NULL,
  state id
  state
           VARCHAR2(50) NOT NULL,
             NUMBER(38) NOT NULL,
  country_id
            VARCHAR2(50) NOT NULL,
  ta_update_dt DATE NOT NULL,
  ta insert dt DATE NOT NULL
);
```

ALTER TABLE dim_stores ADD CONSTRAINT dim_stores_pk PRIMARY KEY (store_surr);

```
BL_DM.DIM_STORES
                 NUMBER (38)
VARCHAR2 (50 BYTE)
P * STORE_SURR
 * STORE_ID
 * SOURCE_SYSTEM VARCHAR2 (50 BYTE)
 * SOURCE_ENTITY VARCHAR2 (50 BYTE)
 * PHONE
                   VARCHAR2 (50 BYTE)
 * STREET_ADDRESS VARCHAR2 (50 BYTE)
 * CITY
                   VARCHAR2 (50 BYTE)
                  NUMBER (38)
 * STATE_ID
 * STATE
                  VARCHAR2 (50 BYTE)
 * COUNTRY_ID
                 NUMBER (38)

    COUNTRY

                   VARCHAR2 (50 BYTE)
 * TA_UPDATE_DT
                  DATE
 * TA_INSERT_DT
                   DATE
DIM_STORES_PK (STORE_SURR)
DIM_STORES_PK(STORE_SURR)
```

```
drop table fct sales CASCADE CONSTRAINTS;
CREATE TABLE fct sales (
  source_system
                 VARCHAR2(50) NOT NULL,
  soutce entity VARCHAR2(50) NOT NULL.
  product_surr_id NUMBER(38) NOT NULL,
  promotion_surr_id NUMBER(38) NOT NULL,
  channel_surr_id NUMBER(38) NOT NULL,
  store_surr_id NUMBER(38) NOT NULL,
  employee_surr_id NUMBER(38) NOT NULL,
  customer surr id NUMBER(38) NOT NULL,
  date id
             DATE NOT NULL,
  unit_cost
              NUMBER(15, 2),
  unit price
              NUMBER(15, 2),
  sales_quantity NUMBER(38),
  ta_update_dt
                DATE NOT NULL,
  ta_insert_dt DATE NOT NULL
);
```

```
BL_DM.FCT_SALES
* SOURCE_SYSTEM VARCHAR2 (50 BYTE)
* SOUTCE_ENTITY VARCHAR2 (50 BYTE)
* PRODUCT_SURR_ID NUMBER (38)
* PROMOTION_SURR_ID NUMBER (38)
* CHANNEL_SURR_ID NUMBER (38)
* STORE_SURR_ID
                       NUMBER (38)
 EMPLOYEE_SURR_ID
                       NUMBER (38)
* CUSTOMER_SURR_ID
                       NUMBER (38)
* DATE_ID
                       DATE
 UNIT COST
                       NUMBER (15,2)
 UNIT_PRICE
                       NUMBER (15,2)
 SALES_QUANTITY
                       NUMBER (38)
* TA_UPDATE_DT
                       DATE
 TA_INSERT_DT
                       DATE
```