

## TASK 9 REPORT

Before realizing the loading of the fact table I need to create procedures for loading all rest tables. So I finished procedures for them

For example finished scd2 logic. You can see the result of the procedure here.

PROMOTION_ID	PROMOTION_SRCID	PRO...	FROM...	PROMOT...	PRO...	START_DT	END_DT	IS_ACTIVE	COST	TA_UPDATE_DT	TA_INSERT_DT
1	-1-1	pers...	src_p...	N/A		-1 9999-12-31 00:00:00	9999-12-31 00:00:00	inactive	-1	2022-03-17 16:35:12	2022-03-17 16:35:12
2	206 1	pers...	src_p...	NO FROM...		57 1999-01-01 00:00:00	9999-12-31 00:00:00	active	0	2022-03-17 16:23:53	2022-03-17 16:23:53
3	205 2	pers...	src_p...	post pr...		56 2020-11-15 00:00:00	9999-12-31 00:00:00	active	8000	2022-03-17 16:24:34	2022-03-17 16:24:34
4	205 2	pers...	src_p...	post pr...		56 2020-10-15 00:00:00	2020-11-15 00:00:00	inactive	7000	2022-03-17 16:24:34	2022-03-17 16:23:53
5	208 30	pers...	src_p...	TV prom...		59 2021-07-28 00:00:00	2021-08-28 00:00:00	inactive	11000	2022-03-17 16:24:34	2022-03-17 16:23:53
6	209 33	pers...	src_p...	interne...		60 2021-05-02 00:00:00	9999-12-31 00:00:00	active	11000	2022-03-17 16:23:53	2022-03-17 16:23:53

  

PROMOTION_SURR_ID	PRO...	SOU...	SOURCE_ENTITY	PROMOTION_NAME	PRO...	PROMOTION_CAT...	START_DT	END_DT	IS_ACTIVE	COST	TA_UPDATE_DT	TA_INSERT_DT
1	20 209	3nf	ce_promotions_scd	Internet promot...	60	Internet	2021-05-02 00:00:00	9999-12-31 00:00:00	active	11000	2022-03-17 16:37:48	2022-03-17 16:37:48
2	21 206	3nf	ce_promotions_scd	NO PROMOTION #	57	NO PROMOTION	1999-01-01 00:00:00	9999-12-31 00:00:00	active	0	2022-03-17 16:37:48	2022-03-17 16:37:48
3	22 208	3nf	ce_promotions_scd	TV promotional #...	59	TV	2021-07-28 00:00:00	2021-08-28 00:00:00	inactive	11000	2022-03-17 16:37:48	2022-03-17 16:37:48
4	23 205	3nf	ce_promotions_scd	post promotioi...	56	post	2020-10-15 00:00:00	2020-11-15 00:00:00	inactive	7000	2022-03-17 16:37:48	2022-03-17 16:37:48
5	24 205	3nf	ce_promotions_scd	post promotioi...	56	post	2020-11-15 00:00:00	9999-12-31 00:00:00	active	8000	2022-03-17 16:37:48	2022-03-17 16:37:48

I CREATED PROCEDURE TO ADD PARTITIONS ON CE\_SALES TABLE. I LIKE IT BETTER THAN MANUAL CREATING

```
CREATE OR REPLACE PROCEDURE BL_CL.CREATE_PARTITIONS_FOR_CE_SALES (
    START_YEAR INT,
    END_YEAR INT
) IS
    PARTITION_PREF VARCHAR2(50);
    PARTITION_LAST_DATE VARCHAR2(50);
    SQL_STATEMENT VARCHAR2(200);
BEGIN
    FOR CURRENT_YEAR IN START_YEAR..END_YEAR LOOP
        FOR CURRENT_MONTH IN 1..12 LOOP
            PARTITION_PREF := 'ce_sales_'
                || CURRENT_YEAR
                || '-'
                || LPAD(CURRENT_MONTH, 2, '0');

            IF CURRENT_MONTH <> 12 THEN
                PARTITION_LAST_DATE := CURRENT_YEAR
                    || '-'
                    || LPAD(CURRENT_MONTH + 1, 2, '0')
                    || '-'
                    || '01';
            ELSE
                PARTITION_LAST_DATE := CURRENT_YEAR + 1
                    || '-'
                    || '01-01';
            END IF;

            SQL_STATEMENT := 'ALTER TABLE ce_sales
                ADD PARTITION '
                || PARTITION_PREF
                || ' VALUES LESS THAN (to_date(''
                || PARTITION_LAST_DATE
                || ''', ''yyyy-mm-dd''))';

            EXECUTE IMMEDIATE SQL_STATEMENT;
        END LOOP;
    END LOOP;

    EXECUTE IMMEDIATE 'ALTER TABLE ce_sales ADD PARTITION sales_before_9999 VALUES LESS THAN (to_date(''9999-01-01'', ''yyyy-mm-dd''))';
```

I CREATED AN INIT PROCEDURE FOR LOAD CE\_SALES. I DECIDED TO DO IT IN A SEPARATE PACKAGE FOR NOW BECAUSE IT'S MORE SIMPLE FOR ME TO WORK WITH SMALL FILES. BEFORE FINISHING THE PROJECT I'LL PUT IT ON RIGHT PLACE.

```

CREATE OR REPLACE PACKAGE pkg_load_fct_sales_init IS
L_PACKAGE_NAME CONSTANT VARCHAR2(100) := 'pkg_load_fct_tables';
    PROCEDURE prc_load_ce_sales_init(
        p_start_dt DATE,
        p_end_dt DATE);

    /* PROCEDURE prc_load_fct_sales_init(
        p_start_dt DATE,
        p_end_dt DATE);*/

END;

```

I USED EXCHANGE PARTITIONS IN PROCEDURE

RESULT OF WORK YOU CAN SEE ON THE SCREENSHOT

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

SQL | Fetched 150 rows in 0.013 seconds

	SALE_ID	SALE_SOURCE_SYSTEM	SALE_SOURCE_ENTITY	PRODUCT_ID	DATE_ID	PROMOTION_ID	CHANNEL_ID	STO...	EMPLOYEE
1	1026412	pesonnel_sales	src_sales	1211652	2020-01-06 00:00:00	228	255	19	
2	1026413	pesonnel_sales	src_sales	1215710	2020-01-06 00:00:00	228	253	4	
3	1026414	pesonnel_sales	src_sales	1208766	2020-01-04 00:00:00	228	255	3	
4	1026415	pesonnel_sales	src_sales	1199820	2020-01-04 00:00:00	228	255	30	
5	1026416	pesonnel_sales	src_sales	1195528	2020-01-04 00:00:00	228	255	11	
6	1026417	pesonnel_sales	src_sales	1206006	2020-01-04 00:00:00	228	253	10	
7	1026418	pesonnel_sales	src_sales	1203766	2020-01-06 00:00:00	228	255	25	
8	1026419	pesonnel_sales	src_sales	1199222	2020-01-06 00:00:00	228	255	16	
9	1026420	pesonnel_sales	src_sales	1211642	2020-01-02 00:00:00	228	255	44	
10	1026421	pesonnel_sales	src_sales	1194960	2020-01-01 00:00:00	228	255	1	
11	1026422	pesonnel_sales	src_sales	1214154	2020-01-02 00:00:00	228	253	26	
12	1026423	pesonnel_sales	src_sales	1200444	2020-01-01 00:00:00	228	253	42	
13	1026424	pesonnel_sales	src_sales	1199426	2020-01-01 00:00:00	228	253	35	
14	1026425	pesonnel_sales	src_sales	1212060	2020-01-01 00:00:00	228	255	12	