U2M1.LW.Core SQL

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https://github.com/VeraShkrabatouskaya/DataMola_Data-Camping-2022

2. Data Warehouse Architecture – Storage Layers

2.1. Task 01: CREATE Storage Objects

Physical Objects according Solution Proposal were created on Module 8.

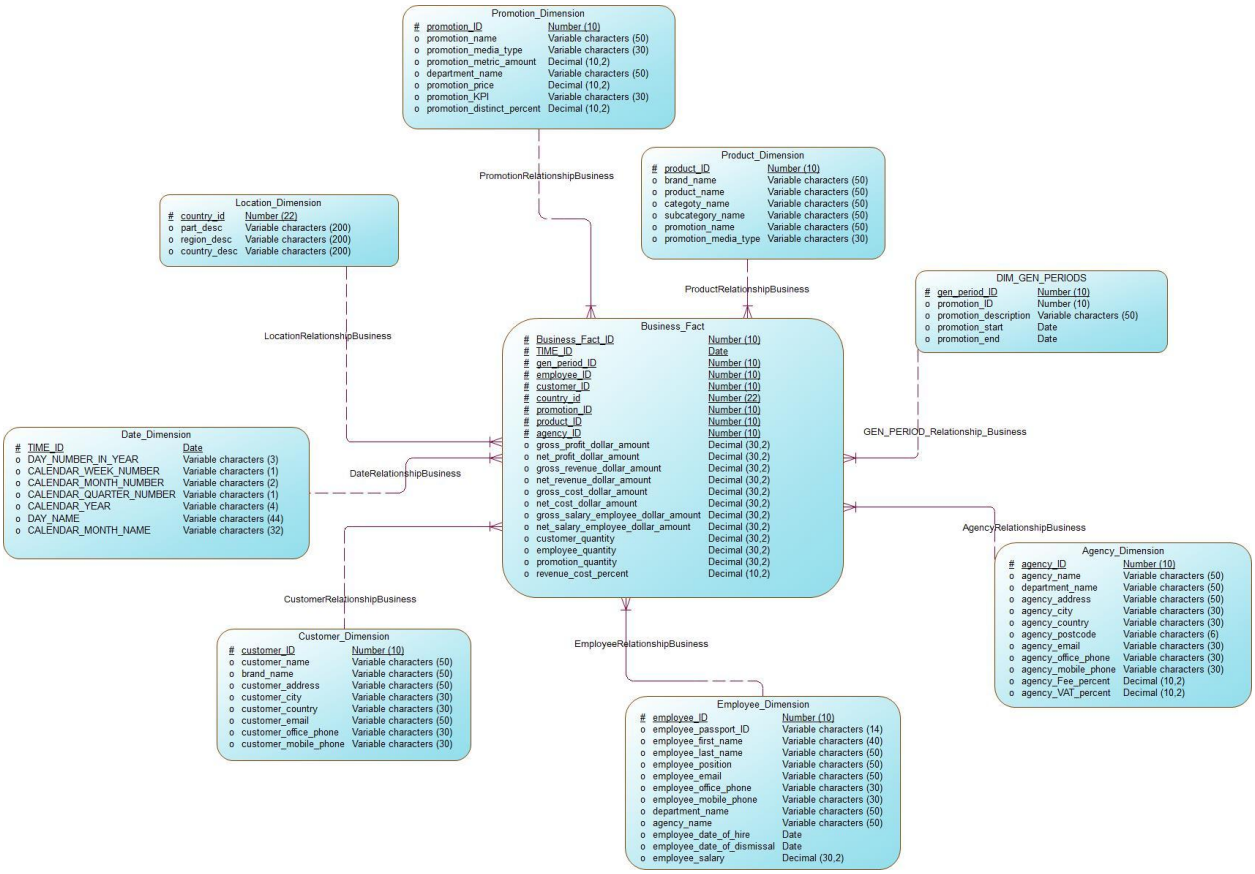
Name Conversation table

Level Type	Object Name	Tablespace	Desctiption
Storage level SA_*	SA_CUSTOMERS	ts_sa_customers_data_01	Loading from structured files. Contains Customer information.
	SA_EMPLOYEES	ts_sa_employees_data_01	Loading from structured files. Contains Employee information.
	SA_PROMOTIONS	ts_sa_promotions_data_01	Loading from structured files. Contains Promotion information.
DW - Cleansing Level	DW_CL	ts_dw_cl	Loading from a scene-level system. Contains information about preparation for subsequent use (cleaning).
DW – Level	DW_DATA	ts_dw_data_01	Loading data from cleansing tables. Contains clean information tending to the 3rd normal form ready to prepare a star schema.
DW– Prepare Star Cleansing Level	SAL_DW_CL	ts_dw_str_cls	Loading data from DW system. Contains views merging objects from DW level.

STAR - Cleansing	SAL_CL	ts_sal_cl	Loading data from DW_CL system. Contains views from previous level but clean any redundancy.
STAR – Level	DM_FCT_KPI	ts_sa_fct_kpi_01	Store information about fact KPI of ad promotions.
	DM_FCT_BUDGET	ts_sa_fct_budget_01	Store information about fact budget.
	DM_FCT_SALARY	ts_sa_fct_salary_01	Store information about fact salary of employees.
	DM_FCT_QUANTITY	ts_sa_fct_quantity_01	Store information about fact quantity of agency customers, employees and promotions.

History of changes

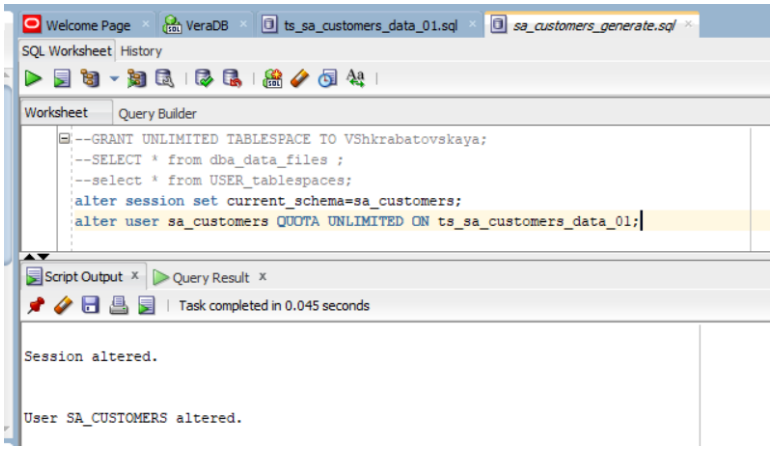
Name	Date	Reason for change	Version
Vera Shkrabatouskaya	7/25/2022	Creation of a STAR data warehouse model.	1.0 draft 1
Vera Shkrabatouskaya	7/26/2022	Changes after approval. Added details to the Business Model.	1.0 approved
Vera Shkrabatouskaya	8/3/2022	Changes after approval. The agency_country field was added to the Agency_Dimension table of the business model.	1.1 approved



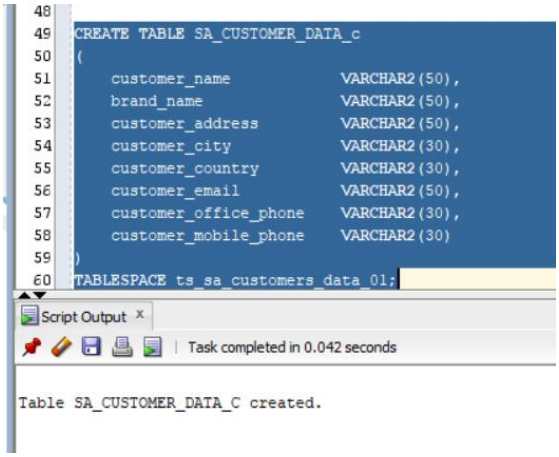
2.2. Task 02: Generate Test Data in Storage Layers

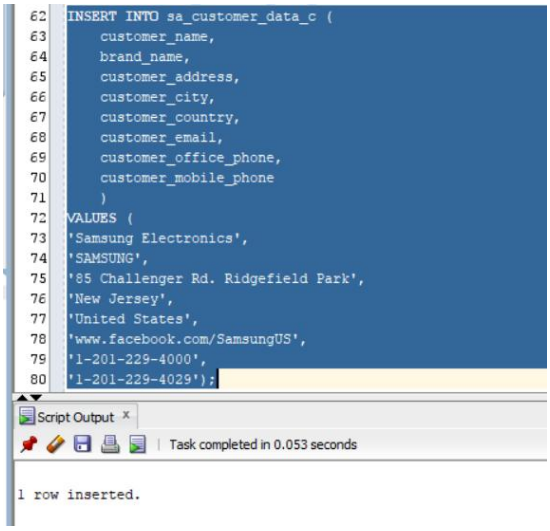
Let's generate test data on Storage layers objects.

Object Name	Tablespace
SA_CUSTOMERS	ts_sa_customers_data_01



Create a table SA_CUSTOMER_DATA_c about the Samsung Electronics customer.





```
82  select * from sa_customer_data_c;
```

Script Output | Query Result | SQL | All Rows Fetched: 1 in 0.024 seconds

	CUSTOMER_NAME	BRAND_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_COUNTRY	CUSTOMER_EMAIL	CUSTOMER_OFFICE_PHONE	CUSTOMER_MOBILE
1	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029

Create a table SA_CUSTOMER_DATA_p about the Samsung Electronics products for an advertising campaign.

```
84  CREATE TABLE SA_CUSTOMER_DATA_p
85  (
86      product_name            VARCHAR2(50)
87  )
88  TABLESPACE ts_sa_customers_data_01;
```

Script Output | Task completed in 0.048 seconds

```
Table SA_CUSTOMER_DATA_P created.
```

```
104 select * from sa_customer_data_p;
```

Script Output | Query Result | SQL | All Rows Fetched: 12 in 0.014 secon

	PRODUCT_NAME
1	Refrigerators
2	Ovens
3	Cooking ovens
4	Washing machines
5	Dishwashers
6	Microwave ovens
7	Vacuum Cleaners
8	Smart watches
9	TVs
10	Smartphones
11	Headphones
12	Tablets

Cross join of SA_CUSTOMER_DATA_c with SA_CUSTOMER_DATA_p.

```
106 select sa_customer_data_c.*, sa_customer_data_p.*
107 from sa_customer_data_c, sa_customer_data_p;
```

Script Output | Query Result | SQL | All Rows Fetched: 12 in 0.012 seconds

	CUSTOMER_NAME	BRAND_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_COUNTRY	CUSTOMER_EMAIL	CUSTOMER_OFFICE_PHONE	CUSTOMER_MOBILE
1	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
2	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
3	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
4	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
5	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
6	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
7	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
8	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
9	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
10	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
11	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029
12	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000	1-201-229-4029

Create a table SA_CUSTOMER_DATA_c2 about the Visa International Service Association customer.

```
CREATE TABLE SA_CUSTOMER_DATA_c2
(
    customer_name           VARCHAR2(50),
    brand_name              VARCHAR2(50),
    customer_address        VARCHAR2(50),
    customer_city           VARCHAR2(30),
    customer_country        VARCHAR2(30),
    customer_email          VARCHAR2(50),
    customer_office_phone   VARCHAR2(30),
    customer_mobile_phone   VARCHAR2(30)
)
TABLESPACE ts_sa_customers_data_01;
```

Script Output | Query Result | Task completed in 0.058 seconds

```
1 row inserted.

1 row inserted.

1 row inserted.

2 rows deleted.

1 row inserted.

Table SA_CUSTOMER_DATA_C2 created.
```

```
INSERT INTO sa_customer_data_c2 (
    customer_name,
    brand_name,
    customer_address,
    customer_city,
    customer_country,
    customer_email,
    customer_office_phone,
    customer_mobile_phone
    )
VALUES (
'Visa International Service Association',
'VISA',
'900 Metro Center Blvd.',
'Foster City',
'United States',
'https://usa.visa.com/contact-us.html',
'1-800-847-2911',
'1-800-847-2922');
```

Script Output | Query Result | Task completed in 0.024 seconds

```
1 row inserted.
```

```
select * from sa_customer_data_c2;
```

Query Result | SQL | All Rows Fetched: 1 in 0.009 seconds

	CUSTOMER_NAME	BRAND_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_COUNTRY	CUSTOMER_EMAIL	CUSTOMER_OFFICE_PH
1	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html	1-800-847-2911

Create a table SA_CUSTOMER_DATA_p2 about the Visa International Service Association for an advertising campaign.

```
CREATE TABLE SA_CUSTOMER_DATA_p2
(
    product_name            VARCHAR2(50)
)
TABLESPACE ts_sa_customers_data_01;
```

Script Output | Query Result | Task completed in 0.022 seconds

```
Table SA_CUSTOMER_DATA_P2 created.
```

```
151 INSERT INTO sa_customer_data_p2 (product_name) VALUES ('Sponsorship');
152 INSERT INTO sa_customer_data_p2 (product_name) VALUES ('Card');
153 INSERT INTO sa_customer_data_p2 (product_name) VALUES ('Benefit');
154 INSERT INTO sa_customer_data_p2 (product_name) VALUES ('Service');
```

Script Output | Query Result | Task completed in 0.051 seconds

```
Table SA_CUSTOMER_DATA_P2 created.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.
```

Script Output | Query Result | SQL | All Rows Fetched: 4 in 0.021

	PRODUCT_NAME
1	Sponsorship
2	Card
3	Benefit
4	Service

Cross join of SA_CUSTOMER_DATA_c2 with SA_CUSTOMER_DATA_p2.

```
select sa_customer_data_c2.*, sa_customer_data_p2.*
from sa_customer_data_c2, sa_customer_data_p2;
```

Script Output | Query Result | SQL | All Rows Fetched: 4 in 0.017 seconds

	CUSTOMER_NAME	BRAND_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_COUNTRY	CUSTOMER_EMAIL	CUSTOMER_OFFICE_PHO
1	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html	1-800-847-2911
2	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html	1-800-847-2911
3	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html	1-800-847-2911
4	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html	1-800-847-2911

Create a table SA_CUSTOMER_DATA_a about the Starcom network agencies serving product promotion for the customer.

```
122 CREATE TABLE SA_CUSTOMER_DATA_a
123 (
124     agency_name             VARCHAR2(50),
125     agency_city             VARCHAR2(30),
126     agency_country          VARCHAR2(30),
127     agency_address          VARCHAR2(50),
128     agency_postcode         VARCHAR2(6),
129     agency_email            VARCHAR2(30),
130     agency_office_phone     VARCHAR2(30),
131     agency_mobile_phone     VARCHAR2(30),
132     agency_Fee_percent      DECIMAL (10,2),
133     agency_VAT_percent      DECIMAL (10,2)
134 )
135 TABLESPACE ts_sa_customers_data_01;
```

Script Output | Task completed in 0.048 seconds

```
Table SA_CUSTOMER_DATA_A created.
```

```
INSERT INTO SA_CUSTOMER_DATA_a
VALUES (
'Starcom',
'London',
'United Kingdom',
'2 Television Centre, 101 Wood Lane',
'19721',
'www.starcomww.com/contact',
'44-204-577-43-17',
'44-204-577-43-17',
25,
20
)
;
```

Script Output | Task completed in 0.153 seconds

```
1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.
```

```
select * from sa_customer_data_a;
```

Script Output | Query Result | All Rows Fetched: 15 in 0.012 seconds

	AGENCY_NAME	AGENCY_CITY	AGENCY_COUNTRY	AGENCY_ADDRESS	AGENCY_POSTCODE	AGENCY_EMAIL	AGENCY_OFFICE_PHONE	AGENCY_MOBI
1	Starcom	New York	United States	375 Hudson St. Floor 12	10014	www.starcomww.com/contact	1-212-468-3888	1-212-468-35
2	Starcom	Sydney	Australia	21 Harris Street, Pyrmont	2009	www.starcomww.com/contact	612-8666-8000	612-8666-801
3	Starcom	Paris	France	30-34 chemin Vert Street	75011	www.starcomww.com/contact	33-1-58-74-08-68	33-1-58-74-7
4	Starcom	Zurich	Switzerland	Stadelhoferstrasse 258	8001	www.starcomww.com/contact	41-43-366-61-61	41-43-366-66
5	Starcom	Nocosia	Cyprus	21 Academias Ave. KEMA Building	2107	www.starcomww.com/contact	357-22378828	357-22378833
6	Starcom	Hong Kong	China	29/F, Paul Y. Centre 51 Hung To Road Kwun Tong	12345	www.starcomww.com/contact	39-051-77-44-90	34-911-99-37
7	Starcom	Berlin	Germany	Paul Lincke Ufer 39-40	10999	www.starcomww.com/contact	49-211-5684962	49-211-56849
8	Starcom	Shanghai	China	21/F Henderson 688	12345	www.starcomww.com/contact	39-051-77-55-90	39-051-77-99
9	Starcom	Cairo	Egypt	City Stars 4th Floor	10521	www.starcomww.com/contact	202-0-2-4800-941	202-0-5-4800
10	Starcom	Warsaw	Poland	44 A Domaniewska Street	02-672	www.starcomww.com/contact	48-22-493-99-99	48-22-493-09
11	Starcom	Barcelona	Spain	385 Aragon Street	08013	www.starcomww.com/contact	34-933-96-77-00	34-933-96-88
12	Starcom	Milan	Italy	C.R. Darwin Street, 20	20143	www.starcomww.com/contact	39-02-66-798-1	39-02-66-798
13	Starcom	Dubai	UAE	King Salman Bin Abdulaziz Al Saud St.	7534	www.starcomww.com/contact	971-0-4-367-6400	971-0-4-367-
14	Starcom	Moscow	Russia	15 Leningradsky prospekt, bld 1	194021	www.starcomww.com/contact	7-495-969-2010	7-495-969-20
15	Starcom	London	United Kingdom	2 Television Centre, 101 Wood Lane	19721	www.starcomww.com/contact	44-204-577-43-17	44-204-577-4

Create a table SA_CUSTOMER_DATA_pm about the type of promotion the customer chooses for the products.

```
CREATE TABLE SA_CUSTOMER_DATA_pm
(
    promotion_media_type    VARCHAR2(50)
)
TABLESPACE ts_sa_customers_data_01;
```

Script Output | Task completed in 0.047 seconds

```
Table SA_CUSTOMER_DATA_PM created.
```

```
548
549 INSERT INTO SA_CUSTOMER_DATA_pm (promotion_media_type) VALUES ('TV');
550 INSERT INTO SA_CUSTOMER_DATA_pm (promotion_media_type) VALUES ('press');
551 INSERT INTO SA_CUSTOMER_DATA_pm (promotion_media_type) VALUES ('digital');
552 INSERT INTO SA_CUSTOMER_DATA_pm (promotion_media_type) VALUES ('radio');
553 INSERT INTO SA_CUSTOMER_DATA_pm (promotion_media_type) VALUES ('OOH');
554 INSERT INTO SA_CUSTOMER_DATA_pm (promotion_media_type) VALUES ('production');
555 INSERT INTO SA_CUSTOMER_DATA_pm (promotion_media_type) VALUES ('design');
```

Script Output | Task completed in 0.057 seconds

```
1 row inserted.

1 row inserted.

1 row inserted.

1 row inserted.
```

```
557
558 select * from SA_CUSTOMER_DATA_pm;
```

Script Output | Query Result | SQL | All Rows Fetched: 7 in 0.01 seconds

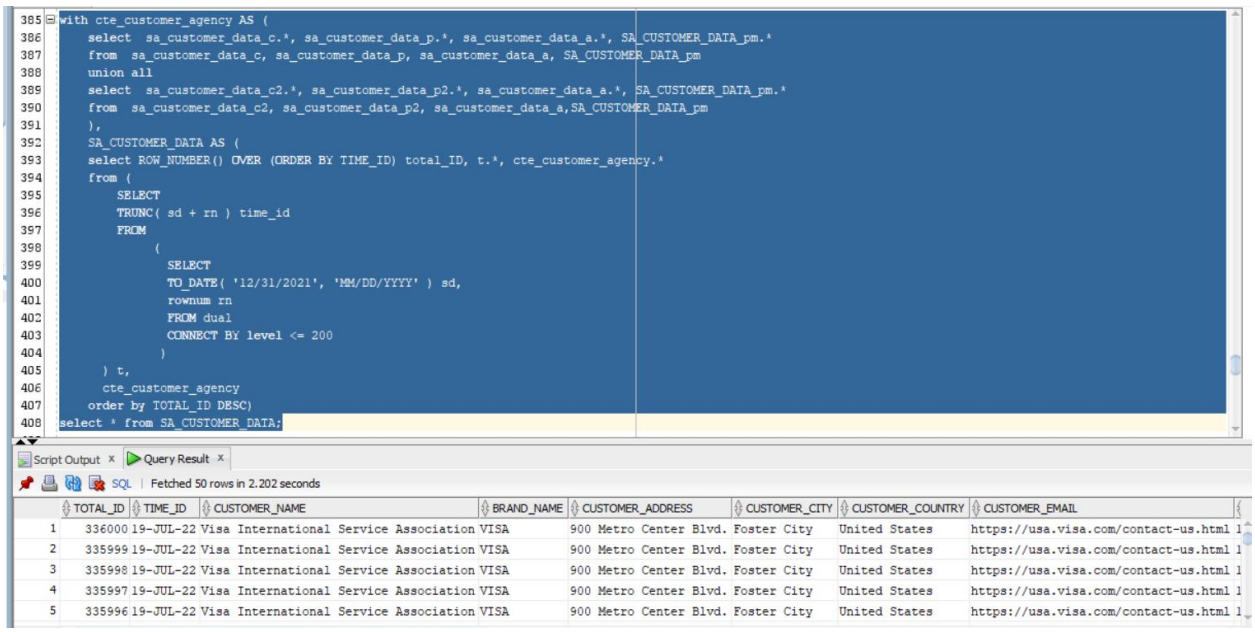
	PROMOTION_MEDIA_TYPE
1	TV
2	press
3	digital
4	radio
5	OOH
6	production
7	design

Using the Cross join tables and CTE subqueries defined in the WITH clause, as well as generating total_ID and TIME_ID to promote the order from the customer, we got a common table SA_CUSTOMER_DATA on the SA_CUSTOMERS storage level in the ts_sa_customers_data_01 tablespace for customers.

```
385 with cte_customer_agency AS (
386     select  sa_customer_data_c.*, sa_customer_data_p.*, sa_customer_data_a.*, SA_CUSTOMER_DATA_pm.*
387     from  sa_customer_data_c, sa_customer_data_p, sa_customer_data_a, SA_CUSTOMER_DATA_pm
388     union all
389     select  sa_customer_data_c2.*, sa_customer_data_p2.*, sa_customer_data_a.*, SA_CUSTOMER_DATA_pm.*
390     from  sa_customer_data_c2, sa_customer_data_p2, sa_customer_data_a,SA_CUSTOMER_DATA_pm
391     ),
392     SA_CUSTOMER_DATA AS (
393     select ROW_NUMBER() OVER (ORDER BY TIME_ID) total_ID, t.*, cte_customer_agency.*
394     from (
395         SELECT
396         TRUNC( sd + rn ) time_id
397         FROM
398             (
399              SELECT
400              TO_DATE( '12/31/2021', 'MM/DD/YYYY' ) sd,
401              rownum rn
402              FROM dual
403              CONNECT BY level <= 200
404             )
405       ) t,
406       cte_customer_agency
407     order by TOTAL_ID ASC)
408 select * from SA_CUSTOMER_DATA;
```

Script Output | Query Result | SQL | Fetched 50 rows in 0.566 seconds

	TOTAL_ID	TIME_ID	CUSTOMER_NAME	BRAND_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_COUNTRY	CUSTOMER_EMAIL	CUSTOMER_OFFICE_PH
1	1	01-JAN-22	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000
2	2	01-JAN-22	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000
3	3	01-JAN-22	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000
4	4	01-JAN-22	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000
5	5	01-JAN-22	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229-4000



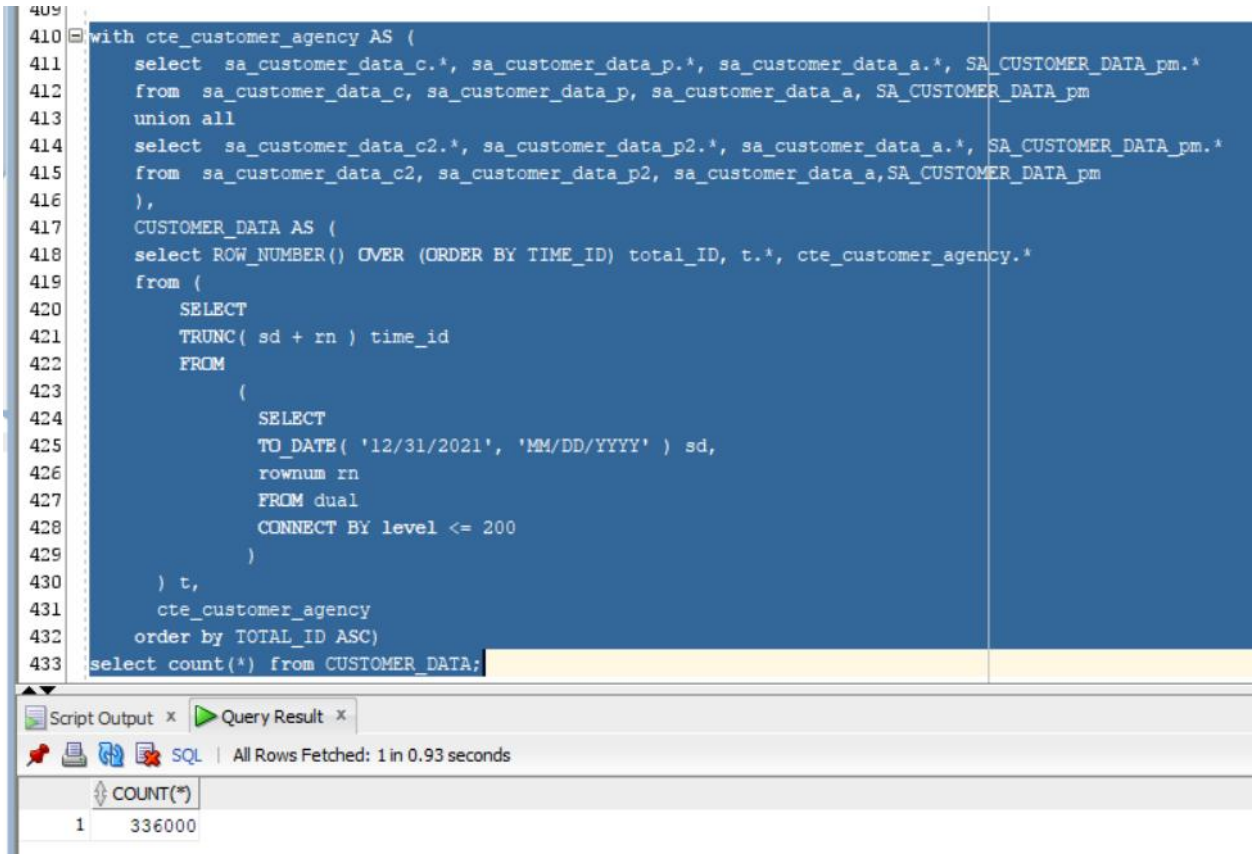
```
with cte_customer_agency AS (
    select  sa_customer_data_c.*, sa_customer_data_p.*, sa_customer_data_a.*, SA_CUSTOMER_DATA_pm.*
    from  sa_customer_data_c, sa_customer_data_p, sa_customer_data_a, SA_CUSTOMER_DATA_pm
    union all
    select  sa_customer_data_c2.*, sa_customer_data_p2.*, sa_customer_data_a.*, SA_CUSTOMER_DATA_pm.*
    from  sa_customer_data_c2, sa_customer_data_p2, sa_customer_data_a,SA_CUSTOMER_DATA_pm
    ),
    SA_CUSTOMER_DATA AS (
    select ROW_NUMBER() OVER (ORDER BY TIME_ID) total_ID, t.*, cte_customer_agency.*
    from (
        SELECT
        TRUNC( sd + rn ) time_id
        FROM
            (
             SELECT
             TO_DATE( '12/31/2021', 'MM/DD/YYYY' ) sd,
             rownum rn
             FROM dual
             CONNECT BY level <= 200
            )
      ) t,
      cte_customer_agency
    order by TOTAL_ID DESC)
select * from SA_CUSTOMER_DATA;
```

Script Output | Query Result

SQL | Fetched 50 rows in 2.202 seconds

	TOTAL_ID	TIME_ID	CUSTOMER_NAME	BRAND_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_COUNTRY	CUSTOMER_EMAIL
1	336000	19-JUL-22	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html 1
2	335999	19-JUL-22	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html 1
3	335998	19-JUL-22	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html 1
4	335997	19-JUL-22	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html 1
5	335996	19-JUL-22	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html 1

336,000 rows were generated.



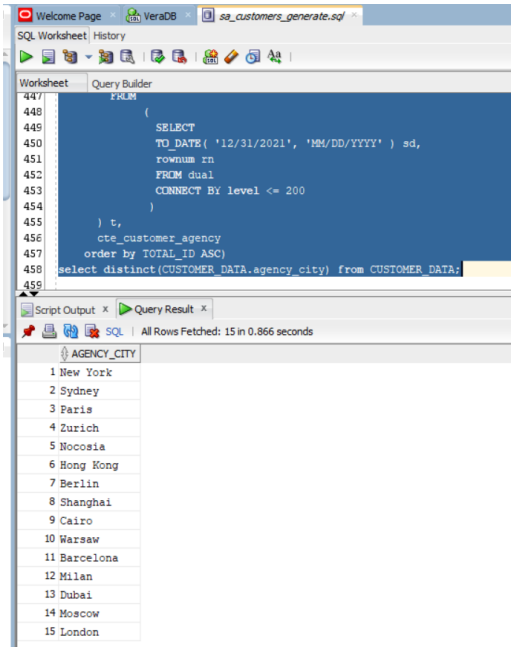
```
with cte_customer_agency AS (
    select  sa_customer_data_c.*, sa_customer_data_p.*, sa_customer_data_a.*, SA_CUSTOMER_DATA_pm.*
    from  sa_customer_data_c, sa_customer_data_p, sa_customer_data_a, SA_CUSTOMER_DATA_pm
    union all
    select  sa_customer_data_c2.*, sa_customer_data_p2.*, sa_customer_data_a.*, SA_CUSTOMER_DATA_pm.*
    from  sa_customer_data_c2, sa_customer_data_p2, sa_customer_data_a,SA_CUSTOMER_DATA_pm
    ),
    CUSTOMER_DATA AS (
    select ROW_NUMBER() OVER (ORDER BY TIME_ID) total_ID, t.*, cte_customer_agency.*
    from (
        SELECT
        TRUNC( sd + rn ) time_id
        FROM
            (
             SELECT
             TO_DATE( '12/31/2021', 'MM/DD/YYYY' ) sd,
             rownum rn
             FROM dual
             CONNECT BY level <= 200
            )
      ) t,
      cte_customer_agency
    order by TOTAL_ID ASC)
select count(*) from CUSTOMER_DATA;
```

Script Output | Query Result

SQL | All Rows Fetched: 1 in 0.93 seconds

	COUNT(*)
1	336000

As a result, we can explore the total CUSTOMER_DATA table in terms of metrics.



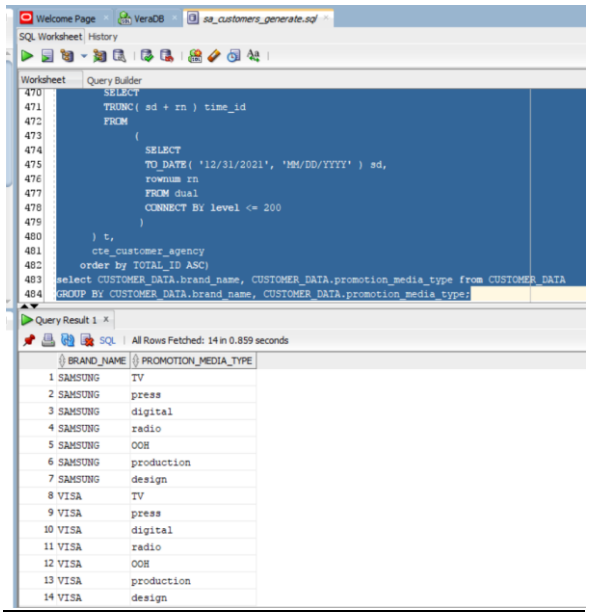
NOTE: Generation of test data on Storage layer objects such as SA_EMPLOYEES and SA_PROMOTIONS will be created later and added to the report.

2.3. Task 03: Create Group by Plan

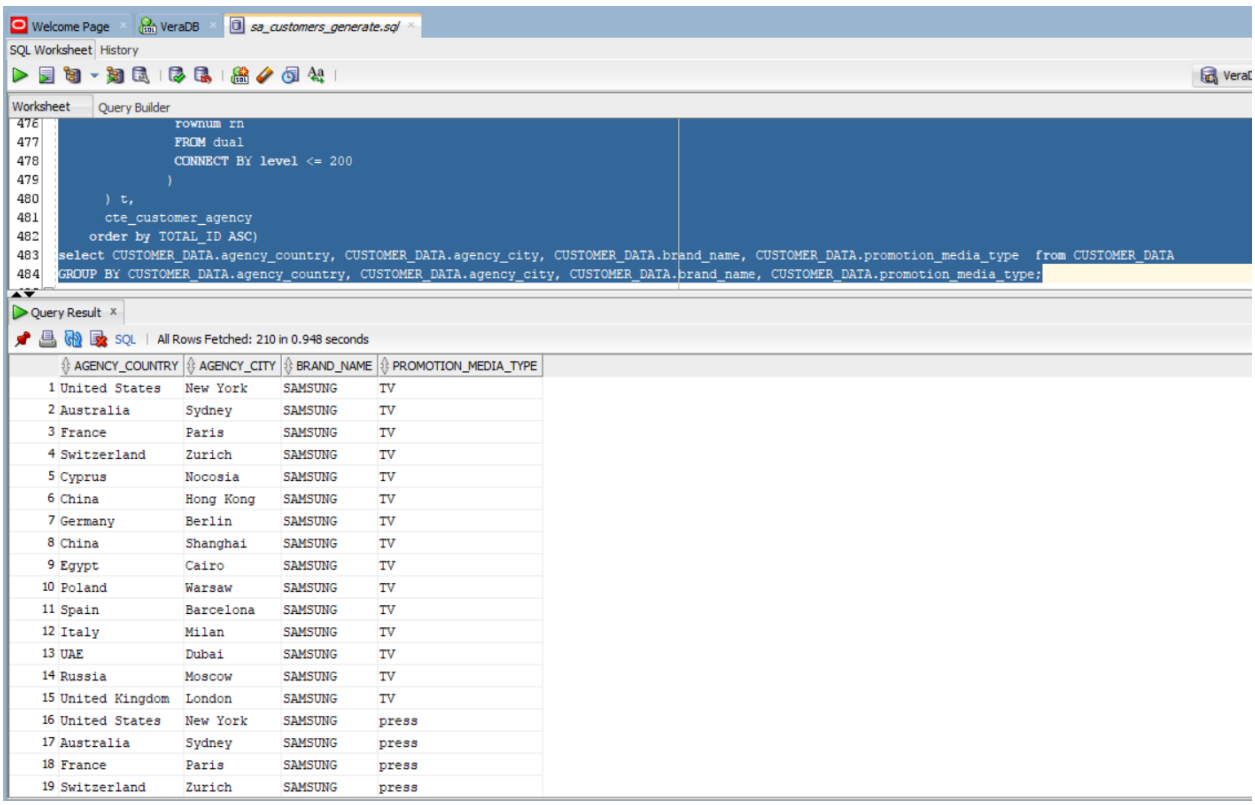
Prepare adhoc SQL for segregate data view on SA_* objects (Storage).

Operations:

- Select
  - Group by



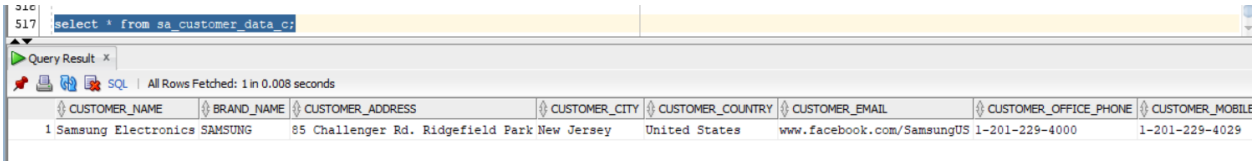
In this selection, we can see which services and for which brands have been ordered through the Starcom network of agencies.
The following selection shows that Starcom provides services in different parts of the world.

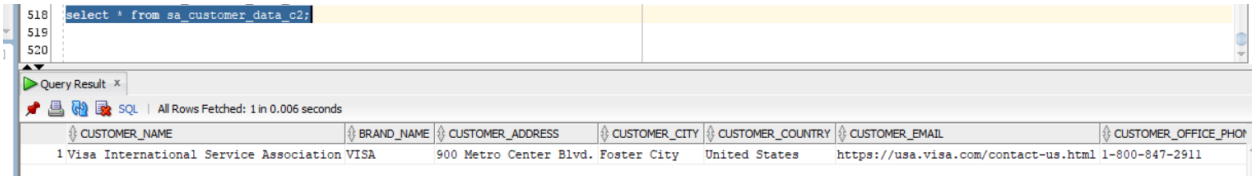


- Merge
  - Group by

The MERGE statement is a single command that combines the ability to update or insert rows into a table by conditionally deriving the rows to be updated or inserted from one or more sources.

Consider two customer tables with the same set of columns. Let's consider the use of the MERGE operator.





```
MERGE INTO sa_customer_data_c t1
USING sa_customer_data_c2 t2
ON (t1.customer_name = t2.customer_name)
WHEN MATCHED THEN
UPDATE SET
t1.brand_name = t2.brand_name,
t1.customer_address = t2.customer_address,
t1.customer_city = t2.customer_city,
t1.customer_country = t2.customer_country,
t1.customer_email = t2.customer_email,
t1.customer_office_phone = t2.customer_office_phone,
t1.customer_mobile_phone = t2.customer_mobile_phone
WHEN NOT MATCHED THEN
INSERT (t1.customer_name, t1.brand_name, t1.customer_address, t1.customer_city, t1.customer_country, t1.customer_email,t1.customer_office_phone, t1.customer_mobil
VALUES (t2.customer_name, t2.brand_name, t2.customer_address, t2.customer_city, t2.customer_country, t2.customer_email,t2.customer_office_phone, t2.customer_mobil
```

Script Output | Task completed in 0.046 seconds

```
1 row merged.
```

It may be noted that the MERGE operator is suitable for updating and merging data in tables.

Updated table:

```
select * from sa_customer_data_c t1;
```

Query Result | SQL | All Rows Fetched: 2 in 0.036 seconds

	CUSTOMER_NAME	BRAND_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_COUNTRY	CUSTOMER_EMAIL	CUSTOMEF
1	Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park	New Jersey	United States	www.facebook.com/SamsungUS	1-201-229
2	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html	1-800-847

Additional table:

```
select * from sa_customer_data_c2 t2;
```

Query Result | SQL | All Rows Fetched: 1 in 0.011 seconds

	CUSTOMER_NAME	BRAND_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_COUNTRY	CUSTOMER_EMAIL	CUSTOMER_OFFICE_PHOI
1	Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html	1-800-847-2911