

# U2.EXIT TASK

## Refresh Scenarios

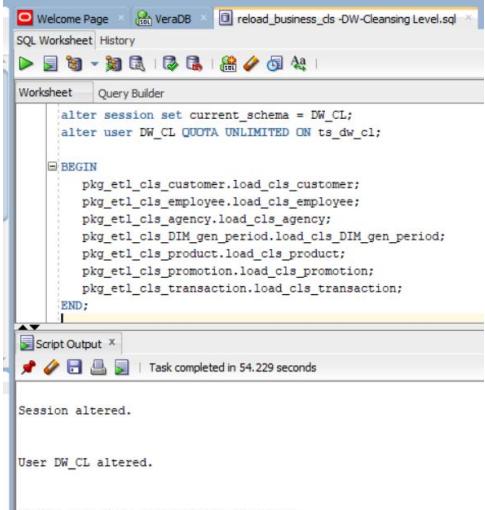
Shkrabatouskaya Vera

[https://github.com/VeraShkrabatouskaya/DataMola\\_Data-Camping-2022](https://github.com/VeraShkrabatouskaya/DataMola_Data-Camping-2022)

### Result Task 01: Test Star Data

#### DW - Cleansing Level

Reload the script that transfers data from SA Level to DW\_CL Level.

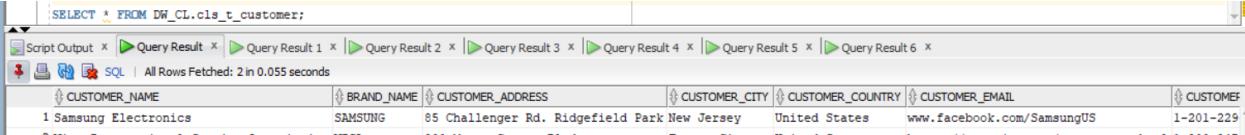


```
alter session set current_schema = DW_CL;
alter user DW_CL QUOTA UNLIMITED ON ts_dw_cl;
BEGIN
    pkg_etl_cls_customer.load_cls_customer;
    pkg_etl_cls_employee.load_cls_employee;
    pkg_etl_cls_agency.load_cls_agency;
    pkg_etl_cls_DIM_gen_period.load_cls_DIM_gen_period;
    pkg_etl_cls_product.load_cls_product;
    pkg_etl_cls_promotion.load_cls_promotion;
    pkg_etl_cls_transaction.load_cls_transaction;
END;
```

Session altered.  
User DW\_CL altered.  
PL/SQL procedure successfully completed.

#### Test results:

- DW\_CL.cls\_t\_customer



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

- DW\_CL.cls\_t\_employee (SCD2)

SELECT \* FROM DW\_CL.cls\_t\_employee;

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3 | Query Result 4 | Query Result 5 | Query Result 6 | Fetched 50 rows in 0.037 seconds

EMPLOYEE_PASSPORT_ID	EMPLOYEE_FIRST_NAME	EMPLOYEE_LAST_NAME	EMPLOYEE_POSITION	EMPLOYEE_EMAIL	EMPLOYEE_OFFICE_PHONE	EMPLOYEE_MOBILE_PHONE	EMPLOYEE_DATE_OF_BIRTH
1 678623765	Robbie	Delon	specialist	Robbie.Delon@gmail.com	846-491-472	349-518-275	24-SEP-19
2 758575752	Jackie	Foster	specialist	Jackie.Foster@gmail.com	115-782-979	759-908-756	07-JAN-19
3 889608342	Jackie	Delon	manager	Jackie.Delon@gmail.com	414-621-525	749-272-334	06-JUN-19
4 615010685	Sam	Foster	manager	Sam.Foster@gmail.com	614-542-627	901-517-845	01-JUN-20
5 950251263	Ronnie	Hasse	specialist	Ronnie.Hasse@gmail.com	912-655-767	790-452-672	25-APR-20
6 659846559	Frankie	Delon	manager	Frankie.Delon@gmail.com	566-421-181	676-216-567	23-JUL-20
7 493499904	Alex	Foster	manager	Alex.Foster@gmail.com	593-622-502	810-735-776	07-NOV-19
8 772529048	Nat	Barnes	specialist	Nat.Barnes@gmail.com	215-932-129	905-135-961	09-DEC-19
9 869715181	Steph	Hasse	specialist	Steph.Hasse@gmail.com	871-395-902	580-179-965	05-JUL-20
10 716131062	Alex	Barnes	specialist	Alex.Barnes@gmail.com	139-830-296	347-558-563	01-FEB-19
11 744961078	Jackie	Joukowski	manager	Jackie.Joukowski@gmail.com	369-192-149	980-308-890	28-AUG-20
12 497259613	Robbie	Kendall	manager	Robbie.Kendall@gmail.com	339-988-625	440-380-540	23-JUL-19
13 275079161	Robbie	Joukowski	specialist	Robbie.Joukowski@gmail.com	179-854-312	328-679-654	30-MAY-20
14 168086822	Sam	Campbell	specialist	Sam.Campbell@gmail.com	851-899-725	201-982-756	21-DEC-20
15 860718701	Robbie	Hasse	manager	Robbie.Hasse@gmail.com	794-579-793	346-352-447	21-AUG-19
16 337821008	Robbie	Campbell	manager	Robbie.Campbell@gmail.com	790-133-136	832-620-204	25-OCT-19
17 839569180	Chris	Abramson	manager	Chris.Abramson@gmail.com	807-180-721	519-700-745	06-APR-19
18 340345770	Steph	Abramson	manager	Steph.Abramson@gmail.com	991-970-998	495-121-395	13-MAY-20
19 562231623	Chris	Delon	specialist	Chris.Delon@gmail.com	994-777-724	116-195-279	09-FEB-20
20 510449107	Nat	Foster	manager	Nat.Foster@gmail.com	969-680-511	210-768-490	15-APR-19
21 505324462	Steph	Delon	specialist	Steph.Delon@gmail.com	111-330-105	759-524-608	14-NOV-20
22 167232681	Nat	Joukowski	manager	Nat.Joukowski@gmail.com	248-324-237	379-196-139	09-MAY-20
23 490884905	Jackie	Abramson	manager	Jackie.Abramson@gmail.com	612-718-816	157-201-100	10-OCT-19

- DW\_CL.cls\_t\_agency

SELECT \* FROM DW\_CL.cls\_t\_agency;

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3 | Query Result 4 | Query Result 5 | Query Result 6 | Fetched 50 rows in 0.019 seconds

AGENCY_NAME	DEPARTMENT_NAME	AGENCY_ADDRESS	AGENCY_CITY	AGENCY_COUNTRY	AGENCY_POSTCODE	AGENCY_EMAIL	AGENC
1 Starcom	Media Planning and Buying	375 Hudson St. Floor 12	New York	United States	10014	www.starcommw.com/contact 1-212-4	
2 Starcom	Media Planning and Buying	21 Harris Street, Pyrmont	Sydney	Australia	2009	www.starcommw.com/contact 612-864	
3 Starcom	Media Planning and Buying	30-34 chemin Vert Street	Paris	France	75011	www.starcommw.com/contact 33-1-56	
4 Starcom	Media Planning and Buying	Stadelhoferstrasse 258	Zurich	Switzerland	8001	www.starcommw.com/contact 41-43-1	
5 Starcom	Media Planning and Buying	21 Academias Ave. KEMA Building	Nicosia	Cyprus	2107	www.starcommw.com/contact 357-22	
6 Starcom	Media Planning and Buying	29/F, Paul Y. Centre 51 Hung To Road Kwun Tong Hong Kong	China	12345		www.starcommw.com/contact 39-051	
7 Starcom	Media Planning and Buying	Paul Lincé Ufer 39-40	Berlin	Germany	10999	www.starcommw.com/contact 49-211	
8 Starcom	Media Planning and Buying	21/F Henderson 688	Shanghai	China	12345	www.starcommw.com/contact 39-051	
9 Starcom	Media Planning and Buying	City Stars 4th Floor	Cairo	Egypt	10521	www.starcommw.com/contact 202-0-2	
10 Starcom	Media Planning and Buying	44 A Domianewska Street	Warsaw	Poland	02-672	www.starcommw.com/contact 48-22-4	
11 Starcom	Media Planning and Buying	385 Aragon Street	Barcelona	Spain	08013	www.starcommw.com/contact 34-933	
12 Starcom	Media Planning and Buying	C.R. Darwin Street, 20	Milan	Italy	20143	www.starcommw.com/contact 39-02-6	
13 Starcom	Media Planning and Buying	King Salman Bin Abdulaziz Al Saud St.	Dubai	UAE	7534	www.starcommw.com/contact 971-0-4	
14 Starcom	Media Planning and Buying	15 Leningradsky prospekt, bld 1	Moscow	Russia	194021	www.starcommw.com/contact 7-495-6	
15 Starcom	Media Planning and Buying	2 Television Centre, 101 Wood Lane	London	United Kingdom	19721	www.starcommw.com/contact 44-204	
16 Starcom	Out-of-Home Media	375 Hudson St. Floor 12	New York	United States	10014	www.starcommw.com/contact 1-212-4	
17 Starcom	Out-of-Home Media	21 Harris Street, Pyrmont	Sydney	Australia	2009	www.starcommw.com/contact 612-864	
18 Starcom	Out-of-Home Media	30-34 chemin Vert Street	Paris	France	75011	www.starcommw.com/contact 33-1-56	
19 Starcom	Out-of-Home Media	Stadelhoferstrasse 258	Zurich	Switzerland	8001	www.starcommw.com/contact 41-43-1	
20 Starcom	Out-of-Home Media	21 Academias Ave. KEMA Building	Nicosia	Cyprus	2107	www.starcommw.com/contact 357-22	
21 Starcom	Out-of-Home Media	29/F, Paul Y. Centre 51 Hung To Road Kwun Tong Hong Kong	China	12345		www.starcommw.com/contact 39-051	
22 Starcom	Out-of-Home Media	Paul Lincé Ufer 39-40	Berlin	Germany	10999	www.starcommw.com/contact 49-211	
23 Starcom	Out-of-Home Media	21/F Henderson 688	Shanghai	China	12345	www.starcommw.com/contact 39-051	
24 Starcom	Out-of-Home Media	City Stars 4th Floor	Cairo	Egypt	10521	www.starcommw.com/contact 202-0-2	

- DW\_CL.cls\_t\_DIM\_gen\_period

SELECT \* FROM DW\_CL.cls\_t\_DIM\_gen\_period;

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3 | Fetched 50 rows in 0.016 seconds

PROMOTION_NAME	PROMOTION_START	PROMOTION_END
1 17964 SAMSUNG_Microwave_ovens_design	11-JAN-22	06-FEB-22
2 17968 SAMSUNG_Microwave_ovens_design	11-JAN-22	22-JAN-22
3 17992 SAMSUNG_Smart_watches_design	11-JAN-22	23-JAN-22
4 18003 SAMSUNG_TVs_design	11-JAN-22	22-MAR-22
5 18014 SAMSUNG_TVs_design	11-JAN-22	24-MAR-22
6 18038 SAMSUNG_Headphones_design	11-JAN-22	02-APR-22
7 18047 SAMSUNG_Tablets_design	11-JAN-22	07-MAR-22
8 18106 VISA_Sponsorship_radio	11-JAN-22	02-APR-22
9 18120 VISA_Sponsorship_radio	11-JAN-22	20-FEB-22
10 18148 VISA_Sponsorship_production	11-JAN-22	31-MAR-22
11 18162 VISA_Sponsorship_design	11-JAN-22	15-MAR-22
12 18172 VISA_Card_TV	11-JAN-22	21-MAR-22
13 18205 VISA_Card_digital	11-JAN-22	15-FEB-22
14 18210 VISA_Card_digital	11-JAN-22	09-FEB-22
15 18214 VISA_Card_radio	11-JAN-22	27-FEB-22
16 18216 VISA_Card_radio	11-JAN-22	21-JAN-22
17 18220 VISA_Card_radio	11-JAN-22	13-APR-22
18 18225 VISA_Card_radio	11-JAN-22	22-MAR-22
19 18227 VISA_Card_OOH	11-JAN-22	22-FEB-22
20 18230 VISA_Card_OOH	11-JAN-22	27-JAN-22
21 18253 VISA_Card_production	11-JAN-22	20-JAN-22
22 18264 VISA_Card_design	11-JAN-22	07-APR-22

- DW\_CL.cls\_t\_product

SELECT \* FROM DW\_CL.cls\_t\_product;

All Rows Fetched: 16 in 0.01 seconds

	BRAND_NAME	PRODUCT_NAME	CATEGORY_NAME	SUBCATEGORY_NAME
1	SAMSUNG	Refrigerators	Appliances	Fridge
2	SAMSUNG	Ovens	Appliances	Conventional ovens
3	SAMSUNG	Cooking ovens	Appliances	Electric cooktop
4	SAMSUNG	Washing machines	Appliances	Fully Automatic washing machine
5	SAMSUNG	Dishwashers	Appliances	Built-in Dishwasher
6	SAMSUNG	Microwave ovens	Appliances	Convection Microwave
7	SAMSUNG	Vacuum Cleaners	Appliances	Robotic vacuum cleaner
8	SAMSUNG	Smart watches	Computerized wristwatch	Smart watch for kids?
9	SAMSUNG	TVs	Appliances	QLED
10	SAMSUNG	Smartphones	Phones	Android Phones
11	SAMSUNG	Headphones	Accessories	Earbuds
12	SAMSUNG	Tablets	Tablet computer	Galaxy Tab series?
13	VISA	Sponsorship	Services	Networking sponsor
14	VISA	Card	Services	Contactless smart card
15	VISA	Benefit	Services	Retirement Savings
16	VISA	Service	Services	Internet banks

- DW\_CL.cls\_t\_promotion

SELECT \* FROM DW\_CL.cls\_t\_promotion;

Fetched 50 rows in 0.027 seconds

TIME_ID	PROMOTION_NAME	PROMOTION_MEDIA_TYPE	PROMOTION_METRIC_AMOUNT	DEPARTMENT_NAME	PROMOTION_PRICE	PROMOTION_KPI	PROMOTION_IS
1	07-JAN-22 10269 SAMSUNG_Refrigerators_press	press		48 Media Planning and Buying	151 CPL		
2	07-JAN-22 10271 SAMSUNG_Refrigerators_press	press		58 Media Planning and Buying	435 CPL		
3	07-JAN-22 10288 SAMSUNG_Ovens_press	press		15 Media Planning and Buying	260 CPL		
4	07-JAN-22 10285 SAMSUNG_Cooking ovens_press	press		85 Media Planning and Buying	791 CPL		
5	07-JAN-22 10311 SAMSUNG_Washing machines_press	press		2 Media Planning and Buying	441 CPA		
6	07-JAN-22 10315 SAMSUNG_Washing machines_press	press		77 Media Planning and Buying	942 CPA		
7	07-JAN-22 10326 SAMSUNG_Dishwashers_press	press		34 Media Planning and Buying	422 CPL		
8	07-JAN-22 10347 SAMSUNG_Microwave ovens_press	press		8 Media Planning and Buying	893 CPA		
9	07-JAN-22 10357 SAMSUNG_Vacuum Cleaners_press	press		5 Media Planning and Buying	638 CPL		
10	07-JAN-22 10360 SAMSUNG_Vacuum Cleaners_press	press		37 Media Planning and Buying	918 CPL		
11	07-JAN-22 10389 SAMSUNG_TVs_press	press		41 Media Planning and Buying	699 CPL		
12	07-JAN-22 10403 SAMSUNG_Smartphones_press	press		48 Media Planning and Buying	323 CPL		
13	07-JAN-22 10421 SAMSUNG_Headphones_press	press		59 Media Planning and Buying	573 CPA		
14	07-JAN-22 10422 SAMSUNG_Headphones_press	press		4 Media Planning and Buying	256 CPA		
15	07-JAN-22 10440 SAMSUNG_Tablets_press	press		16 Media Planning and Buying	106 CPL		
16	07-JAN-22 10446 SAMSUNG_Refrigerators_digital	digital		39 Media Planning and Buying	348 CPL		
17	07-JAN-22 10454 SAMSUNG_Refrigerators_digital	digital		29 Media Planning and Buying	809 CPL		
18	07-JAN-22 10468 SAMSUNG_Ovens_digital	digital		81 Media Planning and Buying	746 CPL		
19	07-JAN-22 10479 SAMSUNG_Cooking ovens_digital	digital		3 Media Planning and Buying	796 CPA		
20	07-JAN-22 10491 SAMSUNG_Washing machines_digital	digital		89 Media Planning and Buying	188 CPA		
21	07-JAN-22 10499 SAMSUNG_Washing machines_digital	digital		77 Media Planning and Buying	160 CPL		

- DW\_CL.cls\_t\_transaction

SELECT \* FROM DW\_CL.cls\_t\_transaction;

Fetched 50 rows in 0.052 seconds

TIME_ID	CUSTOMER_NAME	BRAND_NAME	CUSTOMER_ADDRESS	CUSTOMER_CITY	CUSTOMER_COUNTRY	CUSTOMER_EMAIL
1	02-JAN-22 Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html
2	02-JAN-22 Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html
3	02-JAN-22 Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html
4	02-JAN-22 Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html
5	02-JAN-22 Visa International Service Association	VISA	900 Metro Center Blvd.	Foster City	United States	https://usa.visa.com/contact-us.html
6	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
7	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
8	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
9	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
10	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
11	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
12	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
13	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
14	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
15	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
16	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
17	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
18	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
19	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
20	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
21	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
22	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	
23	03-JAN-22 Samsung Electronics	SAMSUNG	85 Challenger Rd. Ridgefield Park New Jersey	United States	www.facebook.com/SamsungUS	

## DW - Level

Reload the script that transfers data from DW\_CL Level to DW Level.

```
alter session set current_schema = DW_DATA;
alter user DW_DATA QUOTA UNLIMITED ON TS_DW_DATA_01;

BEGIN
    pkg_etl_dw_customer.load_dw_customer;
    pkg_etl_dw_employee.load_dw_employee;
    pkg_etl_dw_agency.load_dw_agency;
    pkg_etl_dw_gen_period.load_dw_gen_period;
    pkg_etl_dw_product.load_dw_product;
    pkg_etl_dw_promotion.load_dw_promotion;
    pkg_etl_dw_transaction.load_dw_transaction;
END;
```

Session altered.  
User DW\_DATA altered.  
PL/SQL procedure successfully completed.

### Test results:

- DW\_DATA.DIM\_customer

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

- DW\_DATA.DIM\_employee (SCD2)

SELECT * FROM DW_DATA.DIM_employee;								
	EMPLOYEE_ID	EMPLOYEE_PASSPORT_ID	EMPLOYEE_FIRST_NAME	EMPLOYEE_LAST_NAME	EMPLOYEE_POSITION	EMPLOYEE_EMAIL	EMPLOYEE_OFFICE_PHONE	EMPLOYEE_MOBILE_PHONE
1	1861677697	Nat	Gauss	specialist	Nat.Gauss@gmail.com	282-502-901	752-528-608	02
2	2869715181	Steph	Hasse	manager	Steph.Hasse@gmail.com	871-395-902	580-179-865	05
3	349349904	Alex	Foster	manager	Alex.Foster@gmail.com	593-622-502	810-735-776	07
4	4839569180	Chris	Abramson	manager	Chris.Abramson@gmail.com	807-180-721	519-700-745	06
5	5667800639	Alex	Delon	manager	Alex.Delon@gmail.com	893-534-669	951-852-346	28
6	6491769730	Sam	Gauss	specialist	Sam.Gauss@gmail.com	315-348-221	617-977-379	06
7	7749807529	Steph	Barnes	manager	Steph.Barnes@gmail.com	561-346-511	880-465-195	19
8	8956992572	Robbie	Foster	specialist	Robbie.Foster@gmail.com	718-619-824	494-554-825	30
9	9192650197	Chris	Campbell	specialist	Chris.Campbell@gmail.com	597-735-240	295-357-419	12
10	10963409407	Robbie	Abramson	manager	Robbie.Abramson@gmail.com	280-650-440	942-123-647	27
11	11919070655	Frankie	Abramson	specialist	Frankie.Abramson@gmail.com	720-672-532	840-743-372	30
12	12339281669	Ronnie	Foster	manager	Ronnie.Foster@gmail.com	737-712-988	642-120-147	11
13	13492102849	Sam	Kendall	manager	Sam.Kendall@gmail.com	544-620-836	704-698-508	01
14	14869715181	Steph	Hasse	specialist	Steph.Hasse@gmail.com	871-395-902	580-179-865	05
15	15260119692	Frankie	Campbell	manager	Frankie.Campbell@gmail.com	421-913-333	881-105-629	11
16	16167232681	Nat	Joukowski	manager	Nat.Joukowski@gmail.com	248-324-237	379-196-139	09
17	17337514882	Sam	Enderson	manager	Sam.Enderson@gmail.com	400-727-808	251-138-223	07
18	18275079161	Robbie	Joukowski	manager	Robbie.Joukowski@gmail.com	179-894-312	328-679-654	30
19	19976800735	Billie	Joukowski	specialist	Billie.Joukowski@gmail.com	382-172-190	335-805-378	13
20	20860718701	Robbie	Hasse	specialist	Robbie.Hasse@gmail.com	794-579-793	346-352-447	21
21	21510449107	Nat	Foster	specialist	Nat.Foster@gmail.com	969-680-511	210-768-490	15
22	22615010685	Sam	Foster	manager	Sam.Foster@gmail.com	614-542-627	901-517-845	01
23	23716131062	Max	Barnes	specialist	Max.Barnes@gmail.com	139-830-296	347-558-563	01

SELECT * FROM DW_DATA.DIM_employee;								
	_LAST_NAME	EMPLOYEE_POSITION	EMPLOYEE_EMAIL	EMPLOYEE_OFFICE_PHONE	EMPLOYEE_MOBILE_PHONE	EMPLOYEE_DATE_OF_HIRE	EMPLOYEE_DATE_END_OF_CONTRACT	CURRENT_FLG
1		specialist	Nat.Gauss@gmail.com	282-502-901	752-528-608	02-AUG-19	15-FEB-23	Y
2		manager	Steph.Hasse@gmail.com	871-395-902	580-179-865	05-JUL-20	30-SEP-22	Y
3		manager	Alex.Foster@gmail.com	593-622-502	810-735-776	07-NOV-19	15-JAN-23	Y
4		manager	Chris.Abramson@gmail.com	807-180-721	519-700-745	06-APR-19	09-JUN-23	Y
5		manager	Alex.Delon@gmail.com	893-534-669	951-852-346	28-JUN-20	12-JUN-23	Y
6		specialist	Sam.Gauss@gmail.com	315-348-221	617-977-379	06-JUL-19	14-AUG-23	Y
7		manager	Steph.Barnes@gmail.com	561-346-511	880-465-195	19-AUG-19	20-DEC-23	Y
8		specialist	Robbie.Foster@gmail.com	718-619-824	494-554-825	30-DEC-19	16-NOV-23	Y
9		specialist	Chris.Campbell@gmail.com	597-735-240	295-357-419	12-MAR-19	29-MAY-23	Y
10		manager	Robbie.Abramson@gmail.com	280-650-440	942-123-647	27-JUN-19	17-MAY-23	Y
11		specialist	Frankie.Abramson@gmail.com	720-672-532	840-743-372	30-AUG-20	18-JUL-23	Y
12		manager	Ronnie.Foster@gmail.com	737-712-988	642-120-147	11-JUL-19	11-SEP-22	Y
13		manager	Sam.Kendall@gmail.com	544-620-836	704-698-508	01-MAY-19	26-OCT-23	Y
14		specialist	Steph.Hasse@gmail.com	871-395-902	580-179-865	05-JUL-20	30-SEP-22	Y
15		manager	Frankie.Campbell@gmail.com	421-913-333	881-105-629	11-JUN-20	26-SEP-22	Y
16		manager	Nat.Joukowski@gmail.com	248-324-237	379-196-139	09-MAY-20	05-MAR-23	Y
17		manager	Sam.Enderson@gmail.com	400-727-808	251-138-223	07-DEC-19	18-NOV-22	Y
18		manager	Robbie.Joukowski@gmail.com	179-894-312	328-679-654	30-MAY-20	24-APR-23	Y
19		specialist	Billie.Joukowski@gmail.com	382-172-190	335-805-378	13-OCT-19	07-OCT-23	Y
20		specialist	Robbie.Hasse@gmail.com	794-579-793	346-352-447	21-AUG-19	30-AUG-23	Y
21		specialist	Nat.Foster@gmail.com	969-680-511	210-768-490	15-APR-19	10-OCT-22	Y
22		manager	Sam.Foster@gmail.com	614-542-627	901-517-845	01-JUN-20	13-NOV-22	Y
23		specialist	Alex.Barnes@gmail.com	139-830-296	347-558-563	01-FEB-19	24-SEP-23	Y

- DW\_DATA.DIM\_agency

SELECT * FROM DW_DATA.DIM_agency;								
	AGENCY_ID	AGENCY_NAME	DEPARTMENT_NAME	AGENCY_CITY	AGENCY_COUNTRY	AGENCY_ADDRESS	AGENCY_POSTCODE	AGENCY_EMAIL
1	1	Starcom	Media Planning and Buying	Hong Kong	China	29/F, Paul Y. Centre 51 Hung To Road Kwun Tong 12345		www.starcommw.com/contact
2	2	Starcom	Production	Berlin	Germany	Paul Lincke Ufer 39-40	10999	www.starcommw.com/contact
3	3	Starcom	Media Planning and Buying	Berlin	Germany	Paul Lincke Ufer 39-40	10999	www.starcommw.com/contact
4	4	Starcom	Media Planning and Buying	Dubai	UAE	King Salman Bin Abdulaziz Al Saud St.	7534	www.starcommw.com/contact
5	5	Starcom	Art and Visualization	Nicosia	Cyprus	21 Academias Ave. KEMA Building	2107	www.starcommw.com/contact
6	6	Starcom	Art and Visualization	Milan	Italy	C.R. Darwin Street, 20	20143	www.starcommw.com/contact
7	7	Starcom	Out-of-Home Media	New York	United States	375 Hudson St. Floor 12	10014	www.starcommw.com/contact
8	8	Starcom	Art and Visualization	Paris	France	30-34 chemin Vert Street	75011	www.starcommw.com/contact
9	9	Starcom	Art and Visualization	Warsaw	Poland	44 A Domaniewska Street	02-672	www.starcommw.com/contact
10	10	Starcom	Media Planning and Buying	Nicosia	Cyprus	21 Academias Ave. KEMA Building	2107	www.starcommw.com/contact
11	11	Starcom	Out-of-Home Media	Cairo	Egypt	City Stars 4th Floor	10521	www.starcommw.com/contact
12	12	Starcom	Production	New York	United States	375 Hudson St. Floor 12	10014	www.starcommw.com/contact
13	13	Starcom	Production	Hong Kong	China	29/F, Paul Y. Centre 51 Hung To Road Kwun Tong 12345		www.starcommw.com/contact
14	14	Starcom	Production	Barcelona	Spain	385 Aragon Street	08013	www.starcommw.com/contact
15	15	Starcom	Art and Visualization	Sydney	Australia	21 Harris Street, Pyrmont	2009	www.starcommw.com/contact
16	16	Starcom	Media Planning and Buying	New York	United States	375 Hudson St. Floor 12	10014	www.starcommw.com/contact
17	17	Starcom	Out-of-Home Media	Moscow	Russia	15 Leningradsky prospekt, bld 1	194021	www.starcommw.com/contact
18	18	Starcom	Production	Warsaw	Poland	44 A Domaniewska Street	02-672	www.starcommw.com/contact
19	19	Starcom	Production	Dubai	UAE	King Salman Bin Abdulaziz Al Saud St.	7534	www.starcommw.com/contact
20	20	Starcom	Production	London	United Kingdom	2 Television Centre, 101 Wood Lane	19721	www.starcommw.com/contact
21	21	Starcom	Art and Visualization	Hong Kong	China	29/F, Paul Y. Centre 51 Hung To Road Kwun Tong 12345		www.starcommw.com/contact
22	22	Starcom	Media Planning and Buying	Paris	France	30-34 chemin Vert Street	75011	www.starcommw.com/contact
23	23	Starcom	Media Planning and Buying	Cairo	Egypt	City Stars 4th Floor	10521	www.starcommw.com/contact

- DW\_DATA.DIM\_gen\_period

	GEN_PERIOD_ID	PROMOTION_NAME	PROMOTION_START	PROMOTION_END
1	1	SAMSUNG_Refrigerators_TV	01-JAN-22	12-FEB-22
2	2	SAMSUNG_Washing machines_TV	01-JAN-22	07-FEB-22
3	3	SAMSUNG_Washing machines_TV	01-JAN-22	06-FEB-22
4	4	SAMSUNG_Microwave ovens_TV	01-JAN-22	04-FEB-22
5	5	SAMSUNG_Vacuum Cleaners_TV	01-JAN-22	30-JAN-22
6	6	SAMSUNG_Smart watches_TV	01-JAN-22	20-MAR-22
7	7	SAMSUNG_Smart watches_TV	01-JAN-22	13-MAR-22
8	8	SAMSUNG_Smart watches_TV	01-JAN-22	21-JAN-22
9	9	SAMSUNG_TVs_TV	01-JAN-22	23-FEB-22
10	10	SAMSUNG_Smartphones_TV	01-JAN-22	25-MAR-22
11	11	SAMSUNG_Tablets_TV	01-JAN-22	26-JAN-22
12	12	SAMSUNG_Cooking ovens_press	01-JAN-22	11-MAR-22
13	13	SAMSUNG_Washing machines_press	01-JAN-22	13-JAN-22
14	14	SAMSUNG_Washing machines_press	01-JAN-22	17-MAR-22
15	15	SAMSUNG_Dishwashers_press	01-JAN-22	28-MAR-22
16	16	SAMSUNG_Dishwashers_press	01-JAN-22	06-MAR-22
17	17	SAMSUNG_Dishwashers_press	01-JAN-22	16-JAN-22
18	18	SAMSUNG_Microwave ovens_press	01-JAN-22	22-FEB-22
19	19	SAMSUNG_Microwave ovens_press	01-JAN-22	01-FEB-22
20	20	SAMSUNG_Vacuum Cleaners_press	01-JAN-22	27-JAN-22
21	21	SAMSUNG_Smart watches_press	01-JAN-22	21-FEB-22
22	22	SAMSUNG_Smart watches_press	01-JAN-22	30-MAR-22
23	23	SAMSUNG_Smartphones_press	01-JAN-22	25-MAR-22

- DW\_DATA.DIM\_product

	PRODUCT_ID	BRAND_NAME	PRODUCT_NAME	CATEGORY_NAME	SUBCATEGORY_NAME
1	1	SAMSUNG	Microwave ovens	Appliances	Convection Microwave
2	2	SAMSUNG	Smart watches	Computerized wristwatch	Smart watch for kids?
3	3	SAMSUNG	TVs	Appliances	QLED
4	4	SAMSUNG	Cooking ovens	Appliances	Electric cooktop
5	5	SAMSUNG	Ovens	Appliances	Conventional ovens
6	6	SAMSUNG	Vacuum Cleaners	Appliances	Robotic vacuum cleaner
7	7	SAMSUNG	Smartphones	Phones	Android Phones
8	8	VISA	Service	Services	Internet banks
9	9	VISA	Card	Services	Contactless smart card
10	10	SAMSUNG	Refrigerators	Appliances	Fridge
11	11	SAMSUNG	Dishwashers	Appliances	Built-in Dishwasher
12	12	SAMSUNG	Tablets	Tablet computer	Galaxy Tab series?
13	13	SAMSUNG	Headphones	Accessories	Earbuds
14	14	VISA	Sponsorship	Services	Networking sponsor
15	15	SAMSUNG	Washing machines	Appliances	Fully Automatic washing machine
16	16	VISA	Benefit	Services	Retirement Savings

- DW\_DATA.DIM\_promotion

	TIME_ID	PROMOTION_NAME	PROMOTION_MEDIA_TYPE	PROMOTION_METRIC_AMOUNT	DEPARTMENT_NAME	PROMOTION_PRICE	PROMOTION_
1	315 07-JAN-22 10089	SAMSUNG_Refrigerators_TV	TV	73	Media Planning and Buying	323	CPL
2	316 07-JAN-22 10095	SAMSUNG_Refrigerators_TV	TV	61	Media Planning and Buying	564	CPL
3	317 07-JAN-22 10097	SAMSUNG_Ovens_TV	TV	60	Media Planning and Buying	170	CPL
4	318 07-JAN-22 10130	SAMSUNG_Washing machines_TV	TV	88	Media Planning and Buying	210	CPL
5	319 07-JAN-22 10141	SAMSUNG_Dishwashers_TV	TV	75	Media Planning and Buying	654	CPL
6	320 07-JAN-22 10191	SAMSUNG_Smart watches_TV	TV	45	Media Planning and Buying	233	CPL
7	321 07-JAN-22 10200	SAMSUNG_Smart watches_TV	TV	2	Media Planning and Buying	206	CPL
8	322 07-JAN-22 10212	SAMSUNG_TVs_TV	TV	35	Media Planning and Buying	658	CPL
9	323 07-JAN-22 10228	SAMSUNG_Smartphones_TV	TV	99	Media Planning and Buying	154	CPL
10	324 07-JAN-22 10240	SAMSUNG_Headphones_TV	TV	63	Media Planning and Buying	109	CPL
11	325 07-JAN-22 10248	SAMSUNG_Tablets_TV	TV	25	Media Planning and Buying	738	CPL
12	326 07-JAN-22 10255	SAMSUNG_Tablets_TV	TV	41	Media Planning and Buying	114	CPL
13	327 07-JAN-22 10265	SAMSUNG_Refrigerators_press	press	68	Media Planning and Buying	771	CPL
14	328 07-JAN-22 10269	SAMSUNG_Refrigerators_press	press	48	Media Planning and Buying	151	CPL
15	329 07-JAN-22 10271	SAMSUNG_Refrigerators_press	press	58	Media Planning and Buying	435	CPL
16	330 07-JAN-22 10288	SAMSUNG_Ovens_press	press	15	Media Planning and Buying	260	CPL
17	331 07-JAN-22 10295	SAMSUNG_Cooking ovens_press	press	85	Media Planning and Buying	791	CPL
18	332 07-JAN-22 10311	SAMSUNG_Washing machines_press	press	2	Media Planning and Buying	441	CPL
19	333 07-JAN-22 10315	SAMSUNG_Washing machines_press	press	77	Media Planning and Buying	942	CPL
20	334 07-JAN-22 10326	SAMSUNG_Dishwashers_press	press	34	Media Planning and Buying	422	CPL
21	335 07-JAN-22 10347	SAMSUNG_Microwave ovens_press	press	8	Media Planning and Buying	893	CPL
22	336 07-JAN-22 10357	SAMSUNG_Vacuum Cleaners_press	press	5	Media Planning and Buying	638	CPL
23	337 07-JAN-22 10360	SAMSUNG_Vacuum Cleaners_press	press	37	Media Planning and Buying	918	CPL

- DW\_DATA.FCT\_business

SELECT \* from DW\_DATA.FCT\_business;

Script Output | Query Result 1 | Query Result 2 | Query Result 3 | Query Result 4 | Query Result 5 | Query Result 6 | Fetched 50 rows in 0.01 seconds

	BUSINESS_FACT_ID	TIME_ID	CUSTOMER_ID	EMPLOYEE_ID	AGENCY_ID	GEN_PERIOD_ID	PRODUCT_ID	PROMOTION_ID	GROSS_PROFIT_DOLLAR_AMOUNT	NET_PROFIT_DOLLAR_AMOUNT	GROSS_R
1	304855 19-MAR-22	1	114	46	105484	3	282657		719.17	636.43	
2	304856 11-MAR-22	1	1	40	225672	4	302353		-522.12	-415.04	
3	304863 23-MAR-22	1	117	13	106460	5	151758		-269.19	-238.22	
4	304867 26-MAR-22	1	58	27	233899	3	240571		-286.03	-238.36	
5	304940 17-JAN-22	1	136	50	109675	11	170786		1260.29	1041.56	
6	304944 18-JAN-22	1	11	55	297853	10	323903		607.97	564.5	
7	304958 16-FEB-22	1	11	54	299149	12	4575		184.23	171.06	
8	304959 18-FEB-22	2	99	6	195610	14	81314		1412.33	1157.65	
9	304978 12-FEB-22	2	142	6	298186	9	4492		929.66	762.02	
10	304980 13-FEB-22	1	7	34	16570	3	26218		-387.61	-308.11	
11	304992 05-MAR-22	2	156	34	328009	14	202363		-302.12	-240.16	
12	305077 04-JAN-22	1	76	11	162054	7	103289		115.1	100.97	
13	305100 04-FEB-22	1	165	13	3113	12	142980		467.9	414.07	
14	305104 06-FEB-22	2	151	46	3343	14	46012		1581.49	1399.55	
15	305105 07-FEB-22	1	184	34	218947	5	67555		-535.92	-426.01	
16	305106 07-FEB-22	1	89	30	67572	12	3586		-198.06	-183.9	
17	305112 13-JAN-22	1	12	30	140663	1	19818		-66.18	-61.45	
18	305118 16-JAN-22	1	31	30	245643	7	105823		186.62	173.28	
19	305124 01-FEB-22	2	98	34	66411	16	261917		197.68	157.14	
20	305128 08-MAR-22	1	38	30	126656	11	63520		368.31	341.98	
21	305130 15-MAR-22	2	74	40	200434	14	96598		312.43	248.35	
22	305141 11-MAR-22	1	67	13	94689	10	181813		1786.66	1581.12	
23	305145 23-FEB-22	2	69	13	18802	14	125645		-298.18	-263.88	

SELECT \* from DW\_DATA.FCT\_business;

Script Output | Query Result 1 | Query Result 2 | Query Result 3 | Query Result 4 | Query Result 5 | Query Result 6 | Fetched 50 rows in 0.01 seconds

	REVENUE_DOLLAR_AMOUNT	GROSS_COST_DOLLAR_AMOUNT	NET_COST_DOLLAR_AMOUNT	GROSS_SALARY_EMPLOYEE_DOLLAR_AMOUNT	NET_SALARY_EMPLOYEE_DOLLAR_AMOUNT	GROSS_PROFIT_MARGIN_PERCENT
22	1768.12	211.31	187	211.31	187	89.42
23	20.12	320.92	284	320.92	284	-1311.25
24	247.77	264.94	246	264.94	246	0.71
25	341.55	129.24	120	129.24	120	64.87
26	49.9	142.15	113	142.15	113	-126.47
27	5.18	566.4	472	566.4	472	-9004.94
28	841.1	197.75	175	197.75	175	79.19
29	1627.13	141.25	125	141.25	125	92.32
30	1587.32	96.9	85	96.9	85	94.65
31	1239.97	313.95	299	313.95	299	75.89
32	169.29	333.6	278	333.6	278	-64.22
33	183.35	509.49	405	509.49	405	-120.89
34	190.4	402.8	374	402.8	374	-96.43
35	1258.33	349.65	333	349.65	333	73.54
36	492.57	264.18	210	264.18	210	57.37
37	161.03	293.11	233	293.11	233	-44.7
38	6.38	495.65	394	495.65	394	-6071.68
39	219.81	389.85	345	389.85	345	-56.95
40	59.88	493.27	458	493.27	458	-664.89
41	1050.82	489.06	429	489.06	429	59.17
42	476.5	470.49	374	470.49	374	21.51
43	219.24	301.34	247	301.34	247	-12.66
44	248.3	199.5	175	199.5	175	29.52

- mv\_customer\_budgets\_monthly

SELECT \* FROM mv\_customer\_budgets\_monthly order by 1,2;

Script Output | Query Result | All Rows Fetched: 21 in 0.007 seconds

	DATE_MONTH	CUSTOMER_ID	REVENUE_GROSS	REVENUE_NET	COST_GROSS	COST_NET	PROFIT_GROSS	PROFIT_NET
1	01-JAN-22	1	52553577.26	44735597.04	12551028.06	10710691	4002549.97	34024902.32
2	01-JAN-22	2	17493193.41	14893055.68	4189317.67	3575764	13303876.1	11317290.47
3	01-JAN-22	(null)	70046770.67	59628652.72	16740345.73	14286455	53306426.07	45342192.79
4	01-FEB-22	1	47354477.71	40308001.53	11351171.22	9686893	36003307.43	30621105.23
5	01-FEB-22	2	15750257.33	13412401.91	3788668.37	3232524	11961589.13	10179876.96
6	01-FEB-22	(null)	63104735.04	53720403.44	15139839.59	12919417	47964896.56	40800982.19
7	01-MAR-22	1	52381394.49	44591213.24	125595838.74	10750046	39785556.88	33841163.77
8	01-MAR-22	2	17560662.94	14950319.3	4187048.81	3574006	13373614.58	11376312.22
9	01-MAR-22	(null)	69942057.43	59541532.54	16782887.55	14324052	53159171.46	45217475.99
10	01-APR-22	1	50823746.84	43255935.83	12153592.29	10371890	38670155.48	32884042.23
11	01-APR-22	2	16876287.41	14364107.76	4043916.65	3452023	12832370.78	10912083.86
12	01-APR-22	(null)	67700034.25	57620043.59	16197508.94	13823913	51502526.26	43796126.09
13	01-MAY-22	1	52610640.47	44784133.06	12582709.79	10741822	40027939.9	34042307.18
14	01-MAY-22	2	17429900.83	14838126.99	4185818.58	3571925	13244082.89	11266200.56
15	01-MAY-22	(null)	70040549.3	59622260.05	16768528.37	14313747	53272022.79	45308507.74
16	01-JUN-22	1	50351376.75	42847020.17	12154107.12	10372464	38197270.51	32474552.83

- mv\_agency\_customer\_budgets\_monthly

SELECT * FROM mv_agency_customer_budgets_monthly ORDER BY 1,2,3;									
	DATE_MONTH	AGENCY_ID	CUSTOMER_ID	REVENUE_GROSS	REVENUE_NET	COST_GROSS	COST_NET	PROFIT_GROSS	PROFIT_NET
1	01-JAN-22	1	1	2050863.84	1814924.36	453177.46	401042	1597686.38	1413882.14
2	01-JAN-22	1	2	645456.39	571200.61	160218.18	141786	485238.21	429414.48
3	01-JAN-22	1	(null)	2696320.23	2386124.97	613395.64	542828	2082924.59	1843296.62
4	01-JAN-22	2	1	340225.96	285904.31	124926.2	104980	215299.76	180924.26
5	01-JAN-22	2	2	120367.92	101149.5	36621.06	30774	83746.86	70375.5
6	01-JAN-22	2	(null)	460593.88	387053.81	161547.26	135754	299046.62	251299.76
7	01-JAN-22	3	1	1221500.01	1026470.81	488793.69	410751	732706.31	615719.68
8	01-JAN-22	3	2	419905.83	352861.96	170392.53	143187	249513.3	209674.93
9	01-JAN-22	3	(null)	1641405.84	1379332.77	659186.22	553938	982219.61	825394.61
10	01-JAN-22	4	1	1484386.65	1413701.55	438782.4	417888	1045604.28	995813.55
11	01-JAN-22	4	2	534248.55	508008.23	137796.75	131235	396451.8	377573.23
12	01-JAN-22	4	(null)	2018635.24	1922509.78	576579.15	549123	1442056.08	1373386.78
13	01-JAN-22	5	1	742953.32	624330.62	115707.27	97233	627246.05	527097.61
14	01-JAN-22	5	2	253158.5	212738.27	40794.39	34281	212364.11	178457.26
15	01-JAN-22	5	(null)	996111.82	837068.89	156501.66	131514	839610.16	705554.87
16	01-JAN-22	6	1	212220.3	173951.04	123272.46	101043	88947.84	72908.01

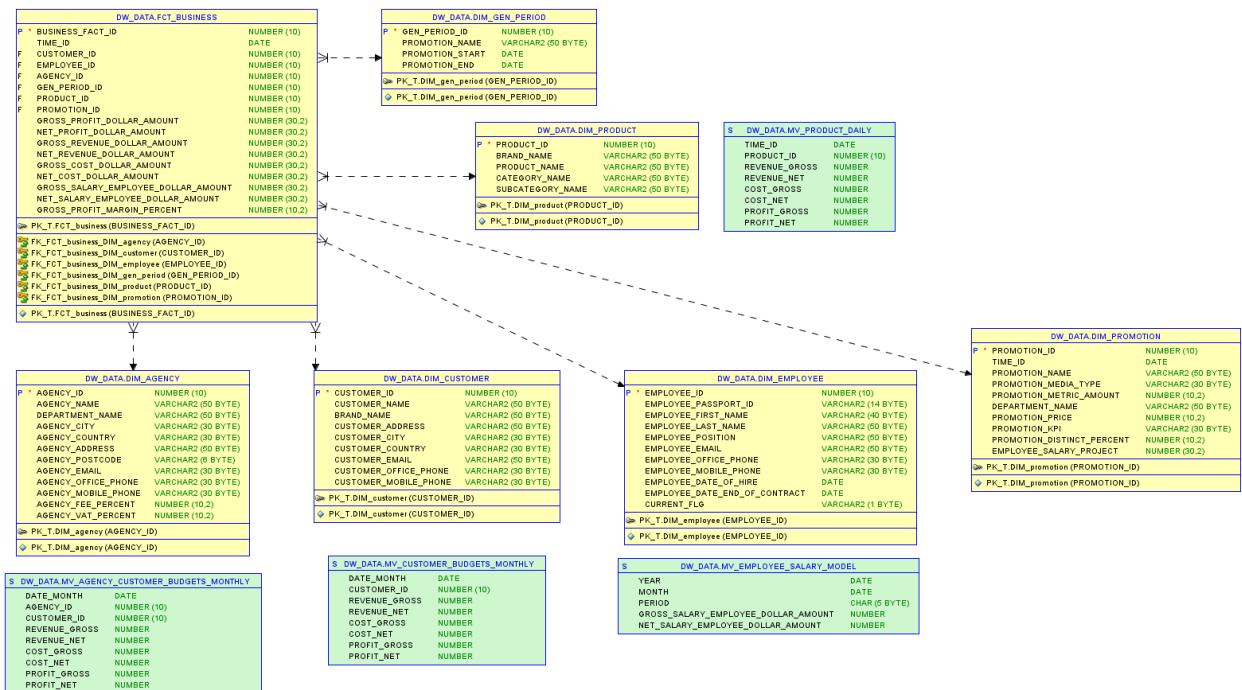
- mv\_product\_daily

SELECT * FROM mv_product_daily ORDER BY 1,2;								
	TIME_ID	PRODUCT_ID	REVENUE_GROSS	REVENUE_NET	COST_GROSS	COST_NET	PROFIT_GROSS	PROFIT_NET
1	15-JAN-22	1	142871.81	121738.08	37269.98	31818	105601.84	89920.05
2	15-JAN-22	2	154472.55	131664.86	33799.09	28846	120673.45	102818.86
3	15-JAN-22	3	133213.22	113970.47	34365.15	29329	98848.09	84641.47
4	15-JAN-22	4	149102.9	127108.23	32119.61	27551	116983.28	99557.23
5	15-JAN-22	5	147834.88	125855.26	36449.51	31186	111385.37	94669.26
6	15-JAN-22	6	145323.62	123220.1	33608.14	28720	111715.46	94500.1
7	15-JAN-22	7	132131.04	112593.85	34376.62	29360	97754.42	83233.82
8	15-JAN-22	8	132896.92	114115.31	32744.14	27997	100152.76	86118.3
9	15-JAN-22	9	153965.11	130867.66	36877.7	31548	117087.39	99319.65
10	15-JAN-22	10	127793.78	108453.11	33890.61	28883	93903.13	79570.11
11	15-JAN-22	11	132906.49	112942.12	33369.65	28411	99536.84	84531.12
12	15-JAN-22	12	163928.1	139695.96	34400.07	29308	129528.07	110387.95
13	15-JAN-22	13	140306.03	119031.65	31581.3	27109	108724.72	91922.64
14	15-JAN-22	14	138978.04	118274.58	35252.25	30051	103725.8	88223.57
15	15-JAN-22	15	156084.55	132620.71	33609.47	28650	122475.11	103970.7
16	15-JAN-22	16	163054.8	138792.07	34313.68	29307	128741.11	109485.07
17	16-JAN-22	1	140428.78	119741.92	34297	29349	106131.78	90392.92
18	16-JAN-22	2	132210.19	112867.2	32837.57	28043	99372.61	84824.18

- mv\_employee\_salary\_model

SELECT * FROM mv_employee_salary_model ORDER BY 1,2,3;					
	YEAR	MONTH	PERIOD	GROSS_SALARY_EMPLOYEE_DOLLAR_AMOUNT	NET_SALARY_EMPLOYEE_DOLLAR_AMOUNT
1	01-JAN-22	01-JAN-22	MONTH	16740345.73	14286455
2	01-JAN-22	01-FEB-22	MONTH	15139839.59	12919417
3	01-JAN-22	01-MAR-22	MONTH	16782887.55	14324052
4	01-JAN-22	01-APR-22	MONTH	16197508.94	13823913
5	01-JAN-22	01-MAY-22	MONTH	16768528.37	14313747
6	01-JAN-22	01-JUN-22	MONTH	16224818.16	13847563
7	01-JAN-22	01-JUL-22	MONTH	10340195.31	8826010
8	01-JAN-22	(null)	YEAR	108194123.65	92341157
9	(null)	(null)	ALL	108194123.65	92341157

## Star scheme



SCD2 Dimension is included in the EMPLOYEE\_DIMENSION field of the Business model.

## DW – Prepare Star Cleansing Level

Reload the script that transfers the necessary data for the STAR Level from FCT\_\* and DIM\_\* of DW Level into the SAL\_DW\_CL Level.

```

Welcome Page × VeraDB × reload_sal_dw_d_transaction - SAL_DW_CL-Level.sql ×
SQL Worksheet | History
Worksheet | Query Builder
alter session set current_schema = SAL_DW_CL;
alter user SAL_DW_CL QUOTA UNLIMITED ON ts_dw_str_cls;

BEGIN
    pkg_etl_sal_dw_cl_transaction.load_sal_dw_cl_transaction;
END;

Script Output ×
Session altered.

User SAL_DW_CL altered.

PL/SQL procedure successfully completed.

```

## Test results:

- sal\_dw\_cl\_t\_transaction

The screenshot shows the Oracle SQL Developer interface. At the top, there is a script editor window containing the SQL command: `SELECT * FROM sal_dw_cl_t_transaction order by 1;`. Below it is a results window titled "Query Result" which displays the output of the query. The results show 50 rows of data from the `sal_dw_cl_t_transaction` table, with columns including TIME\_ID, CUSTOMER\_NAME, BRAND\_NAME, AGENCY\_NAME, DEPARTMENT\_NAME, AGENCY\_CITY, AGENCY\_COUNTRY, AGENCY\_FEE\_PERCENT, and AGENCY\_VAT\_PCT.

TIME_ID	CUSTOMER_NAME	BRAND_NAME	AGENCY_NAME	DEPARTMENT_NAME	AGENCY_CITY	AGENCY_COUNTRY	AGENCY_FEE_PERCENT	AGENCY_VAT_PCT
1	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying Moscow	Moscow	Russia	7	
2	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying Zurich	Zurich	Switzerland	2	
3	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Production	Shanghai	China	5	
4	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying Paris	Paris	France	2	
5	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying Zurich	Zurich	Switzerland	2	
6	01-JAN-22 Visa International Service Association VISA	Starcom	Media Planning and Buying Zurich	Zurich	Zurich	Switzerland	2	
7	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying Nocosia	Nicosia	Cyprus	7	
8	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Art and Visualization	Milan	Italy	2	
9	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Paris	France	2	
10	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Art and Visualization	Milan	Italy	2	
11	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Hong Kong	China	5	
12	01-JAN-22 Visa International Service Association VISA	Starcom	Media Planning and Buying Sydney	Sydney	Sydney	Australia	1	
13	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Hong Kong	China	5	
14	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying Nocosia	Nicosia	Cyprus	7	
15	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Dubai	UAE	4	
16	01-JAN-22 Visa International Service Association VISA	Starcom	Media Planning and Buying Sydney	Sydney	Sydney	Australia	1	
17	01-JAN-22 Visa International Service Association VISA	Starcom	Out-of-Home Media	Warsaw	Warsaw	Poland	8	
18	01-JAN-22 Visa International Service Association VISA	Starcom	Media Planning and Buying London	London	London	United Kingdom	5	
19	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Warsaw	Poland	8	
20	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying Moscow	Moscow	Russia	7	
21	01-JAN-22 Visa International Service Association VISA	Starcom	Out-of-Home Media	Moscow	Moscow	Russia	7	
22	01-JAN-22 Samsung Electronics	SAMSUNG	Starcom	Art and Visualization	Paris	France	2	

## **STAR – Cleansing Level**

Reload the script that transfers the necessary data for the STAR Level from SAL\_DW\_CL Level into the SAL\_CL Level.

The screenshot shows the Oracle SQL Developer interface. The workspace contains a PL/SQL procedure named `reload_sal_d_transaction - SAL_CL-Level.sql`. The code within the procedure grants SELECT permission on the `sal_dw_cl_t_transaction` table to the `SAL_CL` role and then calls a package procedure to load data into the table. The script output window shows the task completed in 36.935 seconds. The results window shows three messages indicating session alteration, grant success, and procedure completion.

```
alter session set current_schema = SAL_CL;
GRANT SELECT ON SAL_DW_CL.sal_dw_cl_t_transaction TO SAL_CL;

BEGIN
    pkg_etl_sal_cl_t_transaction.load_sal_cl_t_transaction;
END;
```

Script Output X | Task completed in 36.935 seconds

Session altered.

Grant succeeded.

PL/SQL procedure successfully completed.

## Test results:

- sal\_cl\_t\_transaction

SELECT * FROM sal_cl_t_transaction order by 1;								
TRANSACTION_ID	TIME_ID	CUSTOMER_NAME	BRAND_NAME	AGENCY_NAME	DEPARTMENT_NAME	AGENCY_CITY	AGENCY_COUNTRY	AGENCY_FEE_PERCENT
1	127-MAR-22	Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying	Sydney	Australia	1
2	2 16-MAR-22	Visa International Service Association	VISA	Starcom	Art and Visualization	Milan	Italy	2
3	3 26-MAR-22	Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying	Sydney	Australia	1
4	4 28-FEB-22	Samsung Electronics	SAMSUNG	Starcom	Art and Visualization	Milan	Italy	2
5	5 03-FEB-22	Visa International Service Association	VISA	Starcom	Media Planning and Buying	Sydney	Australia	1
6	6 14-MAR-22	Samsung Electronics	SAMSUNG	Starcom	Art and Visualization	Zurich	Switzerland	2
7	7 16-MAR-22	Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Hong Kong	China	5
8	8 19-FEB-22	Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Zurich	Switzerland	2
9	9 28-JAN-22	Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying	Sydney	Australia	1
10	10 26-FEB-22	Samsung Electronics	SAMSUNG	Starcom	Art and Visualization	Milan	Italy	2
11	11 15-MAR-22	Samsung Electronics	SAMSUNG	Starcom	Production	Sydney	Australia	1
12	12 12-JAN-22	Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying	Sydney	Australia	1
13	13 07-JAN-22	Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Barcelona	Spain	9
14	14 19-FEB-22	Visa International Service Association	VISA	Starcom	Art and Visualization	Zurich	Switzerland	2
15	15 01-MAR-22	Visa International Service Association	VISA	Starcom	Out-of-Home Media	Dubai	UAE	4
16	16 09-JAN-22	Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Barcelona	Spain	9
17	17 25-JAN-22	Visa International Service Association	VISA	Starcom	Production	Hong Kong	China	5
18	18 23-JAN-22	Visa International Service Association	VISA	Starcom	Production	Hong Kong	China	5
19	19 09-FEB-22	Samsung Electronics	SAMSUNG	Starcom	Out-of-Home Media	Paris	France	2
20	20 07-MAR-22	Visa International Service Association	VISA	Starcom	Out-of-Home Media	Zurich	Switzerland	2
21	21 01-FEB-22	Visa International Service Association	VISA	Starcom	Out-of-Home Media	Zurich	Switzerland	2
22	22 05-JAN-22	Samsung Electronics	SAMSUNG	Starcom	Media Planning and Buying	Sydney	Australia	1

- v\_sal\_budgets

SELECT * FROM v_sal_budgets;										
YEAR	QUARTER	MONTH	DAY	GROSS_REVENUE	NET_REVENUE	GROSS_COST	NET_COST	GROSS_PROFIT	NET_PROFIT	MARGIN_PERCENT
1 2022	Q1	JANUARY	FRIDAY	8922144.68	7600408.7	2156825.11	1840031	6765319.87	5760377	75.83
2 2022	Q1	JANUARY	SATURDAY	11354703.33	9668032.51	2717231.58	2319191	8637472.02	7348840.73	76.07
3 2022	Q1	JANUARY	SUNDAY	11405232.28	9709098.87	2698807.81	2303655	8706424.9	7405443.06	76.34
4 2022	Q1	JANUARY	MONDAY	11215908.64	9543363.73	2680052.26	2294340	8527856.24	7249022.96	76.03
5 2022	Q1	JANUARY	TUESDAY	9041021.34	7694446.61	2152582.27	1836027	6888439.05	5858419.06	76.19
6 2022	Q1	JANUARY	WEDNESDAY	8920679.37	7589304.64	2166851.06	1849464	6753820.5	5739840.01	75.71
7 2022	Q1	JANUARY	THURSDAY	9187081.03	7823979.66	2159995.64	1843747	7027085.49	5980249.97	76.49
8 2022	Q1	FEBRUARY	TUESDAY	8990775.4	7657892.22	2171138.77	1852950	6819636.85	5804941.59	75.85
9 2022	Q1	FEBRUARY	WEDNESDAY	9055519.75	7711978.4	2156304.43	1840555	6899215.54	5871422.83	76.19
10 2022	Q1	FEBRUARY	THURSDAY	8843856.49	7530073.13	2171592.38	1853190	6672264.02	5676882.53	75.45
11 2022	Q1	FEBRUARY	FRIDAY	9145739.75	7784038.66	2154893.12	1838294	6990846.9	5945744.19	76.44
12 2022	Q1	FEBRUARY	MONDAY	8981667.69	7651819.59	2157083.58	1840688	6824584.28	5811130.91	75.98
13 2022	Q1	FEBRUARY	SATURDAY	9105782.8	7742947.32	2171004.41	1852404	6934778.58	5890542.7	76.16
14 2022	Q1	FEBRUARY	SUNDAY	8981393.16	7641654.12	2157822.9	1841336	6823570.39	5800317.44	75.97
15 2022	Q1	MARCH	TUESDAY	11256930.04	9586394.67	2717264.22	2319780	8539665.98	7266613.95	75.86
16 2022	Q1	MARCH	WEDNESDAY	11212932.28	9546469.14	2687911.03	2293649	8525021.51	7252839.39	76.03
17 2022	Q1	MARCH	THURSDAY	11196340.35	9529929.32	2716553.62	2318527	8479786.65	7211401.57	75.74
18 2022	Q1	MARCH	FRIDAY	9159264.96	7797664.65	2177545.92	1857760	6981719.44	5939904.14	76.23
19 2022	Q1	MARCH	SUNDAY	906896.94	7718943.36	2144383.71	1831048	6924585.43	5887894.79	76.35
20 2022	Q1	MARCH	MONDAY	9041810.8	7694432.68	2169146.76	1851351	6872664.58	5843081.11	76.01
21 2022	Q1	MARCH	SATURDAY	9005810.06	7667678.72	2170082.29	1851937	6835728.16	5815741.04	75.9
22 2022	Q2	MAY	WEDNESDAY	9106390.06	7750502.8	2169644.67	1851853	6936745.43	5898649.11	76.17
23 2022	Q2	MAY	THURSDAY	9223696.48	7851941.76	2174064.12	1855787	7049632.61	5996154.07	76.43
24 2022	Q2	APRIL	MONDAY	9142060.92	7778358.73	2168222.52	1849706	6973838.51	5928652.14	76.28

14	alter session set current_schema=DM_BUDGET;									
15	SELECT * FROM SAL_CL.V_sal_budgets;									
Query Result										
YEAR	QUARTER	MONTH	DAY	GROSS_REVENUE	NET_REVENUE	GROSS_COST	NET_COST	GROSS_PROFIT	NET_PROFIT	MARGIN_PERCENT
49 2022	Q3	JULY	THURSDAY	4598766.13	3916447.68	1099865.75	938275	3498900.44	2978172.43	76.08
50 2022	Q1	JANUARY	All Days	70046770.67	56628652.72	16740345.73	14286455	5306426.07	45342192.79	76.1
51 2022	Q1	FEBRUARY	All Days	63104735.04	53720403.44	15139839.59	12919417	47964896.56	40800982.19	76.01
52 2022	Q1	MARCH	All Days	69942057.43	59541532.54	16782887.55	14234052	53159171.46	45217475.99	76
53 2022	Q2	MAY	All Days	70040549.3	59622260.05	16768528.37	14313747	53272022.79	45308507.74	76.06
54 2022	Q2	APRIL	All Days	67700034.25	57620043.59	16197508.94	13823913	51502526.26	43796126.09	76.07
55 2022	Q2	JUNE	All Days	66666509.45	56736334.8	16224818.16	13847563	50441692.44	42888767.17	75.66
56 2022	Q3	JULY	All Days	43176592.47	36750041.89	10340195.31	8826010	32836398.19	27924029.13	76.05
57 2022	Q1	All Mo... All Days		203093563.14	172905088.7	48663072.87	41529924	15430494.09	13136065...	76.04
58 2022	Q2	All Mo... All Days		204407093	173978638.44	49190855.47	41985223	155216241.49	131993401	75.93
59 2022	Q3	All Mo... All Days		43176592.47	36750041.89	10340195.31	8826010	32836398.19	27924029.13	76.05
60 2022	All Qu... All Mo... All Days			450677248.61	383619269.08	10819412...	92341157	342483133.77	291278081.1	75.99
61 All... All Qu... All Mo... All Days				450677248.61	383619269.03	10819412...	92341157	342483133.77	291278081.1	75.99

Having analyzed the data from the Starcom data warehouse, looking at the margin parameter, we can say that this business is profitable. The average annual margin is 75.99%.

- v\_sal\_budgets\_agency

SELECT * FROM v_sal_budgets_agency;											
DATE_MONTH	AGENCY_NAME	AGENCY_COUNTRY	AGENCY_CITY	GROSS_REVENUE	NET_REVENUE	GROSS_COST	NET_COST	GROSS_PROFIT	NET_PROFIT	MARGIN_PERCENT	
1 01-JAN-22	Starcom	Australia	Sydney	1087492.15	864461.89	1216541.38	967044	-129049.34	-102582.84	-11.87	
2 01-JAN-22	Starcom	Australia	(null)	1087492.15	864461.89	1216541.38	967044	-129049.34	-102582.84	-11.87	
3 01-JAN-22	Starcom	China	Hong Kong	4818889.61	4264505.61	1066093.98	943446	3752795.63	3321059.06	77.88	
4 01-JAN-22	Starcom	China	Shanghai	4823823.53	4268872	1070868.23	947671	3752955.28	3321200.5	77.8	
5 01-JAN-22	Starcom	China	(null)	9642713.14	8533377.61	2136962.21	1891117	7505750.91	6642259.56	77.84	
6 01-JAN-22	Starcom	Cyprus	Nicosia	7149559.25	6008033.44	1130876.04	950316	6018683.21	5057717.36	84.18	
7 01-JAN-22	Starcom	Cyprus	(null)	7149559.25	6008033.44	1130876.04	950316	6018683.21	5057717.36	84.18	
8 01-JAN-22	Starcom	Egypt	Cairo	4797528.32	4208360	1087516.68	953962	3710011.63	3254397.4	77.33	
9 01-JAN-22	Starcom	Egypt	(null)	4797528.32	4208360	1087516.68	953962	3710011.63	3254397.4	77.33	
10 01-JAN-22	Starcom	France	Paris	2054998.63	1712499.22	1146770.4	955642	908228.23	756856.86	44.2	
11 01-JAN-22	Starcom	France	(null)	2054998.63	1712499.22	1146770.4	955642	908228.23	756856.86	44.2	
12 01-JAN-22	Starcom	Germany	Berlin	2949625.12	2478677.1	1146626.88	963552	1802998.23	1515124.78	61.13	
13 01-JAN-22	Starcom	Germany	(null)	2949625.12	2478677.1	1146626.88	963552	1802998.23	1515124.78	61.13	
14 01-JAN-22	Starcom	Italy	Milan	2103569.9	1724237.91	1152236.32	944456	951333.57	779781.63	45.22	
15 01-JAN-22	Starcom	Italy	(null)	2103569.9	1724237.91	1152236.32	944456	951333.57	779781.63	45.22	
16 01-JAN-22	Starcom	Poland	Warsaw	848847.91	6901502.46	1170750.9	951830	7318097.01	5949672.46	86.21	
17 01-JAN-22	Starcom	Poland	(null)	848847.91	6901502.46	1170750.9	951830	7318097.01	5949672.46	86.21	
18 01-JAN-22	Starcom	Russia	Moscow	7040378.11	5866982.04	1140723.6	950603	5899654.47	4916378.91	83.8	
19 01-JAN-22	Starcom	Russia	(null)	7040378.11	5866982.04	1140723.6	950603	5899654.47	4916378.91	83.8	
20 01-JAN-22	Starcom	Spain	Barcelona	9213490.01	7614455.25	1146367.31	947411	8067122.7	6667044.21	87.56	
21 01-JAN-22	Starcom	Spain	(null)	9213490.01	7614455.25	1146367.31	947411	8067122.7	6667044.21	87.56	
22 01-JAN-22	Starcom	Switzerland	Zurich	1819977.79	1689858.98	1029297.11	955706	790682.25	734152.73	43.44	
23 01-JAN-22	Starcom	Switzerland	(null)	1819977.79	1689858.98	1029297.11	955706	790682.25	734152.73	43.44	

- v\_sal\_budgets\_brand\_promotion

SELECT * FROM v_sal_budgets_brand_promotion;											
DATE_MONTH	CUSTOMER_NAME	BRAND_NAME	PROMOTION_MEDIA_TYPE	GROSS_REVENUE	NET_REVENUE	GROSS_COST	NET_COST	GROSS_PROFIT	NET_PROFIT	MARGIN_PERCENT	
1 01-JAN-22	Samsung Electronics	SAMSUNG	OOH	7525615.2	6407143.1	1788792.18	1526617	5736822.98	4880525.58	76.23	
2 01-JAN-22	Samsung Electronics	SAMSUNG	TV	7461399.43	6353431.32	1801945.49	1537325	5659453.99	4816105.81	75.85	
3 01-JAN-22	Samsung Electronics	SAMSUNG	design	7562196.92	6440957.32	1780881.78	1519656	5781315.24	4921300.81	76.45	
4 01-JAN-22	Samsung Electronics	SAMSUNG	digital	7464536.97	6350401.76	1808945.6	1544987	5655591.83	4805414.25	75.77	
5 01-JAN-22	Samsung Electronics	SAMSUNG	press	7345701.64	6253298.14	1792000.08	1527649	5555501.43	4725648.52	75.63	
6 01-JAN-22	Samsung Electronics	SAMSUNG	production	7692866.68	6541381.1	1787128.51	1524469	5905738.56	5016881.53	76.77	
7 01-JAN-22	Samsung Electronics	SAMSUNG	radio	7501260.42	6389014.3	1793134.42	1529988	5708125.94	4859025.82	76.1	
8 01-JAN-22	Samsung Electronics	SAMSUNG	(null)	52553577.26	44735597.04	12551028.06	10710691	40002549.97	34024902.32	76.12	
9 01-JAN-22	Samsung Electronics	(null)	(null)	52553577.26	44735597.04	12551028.06	10710691	40002549.97	34024902.32	76.12	
10 01-JAN-22	Visa International ... VISA	OOH		2478543.57	2108978.24	597828.06	510378	1880715.54	1598600.05	75.88	
11 01-JAN-22	Visa International ... VISA	TV		2492309.11	2121202.81	607222.65	518101	1885006.51	1630101.68	75.64	
12 01-JAN-22	Visa International ... VISA	design		2506208.14	2134686.06	586995.55	501253	1919212.68	1633432.84	76.58	
13 01-JAN-22	Visa International ... VISA	digital		2587279.4	2202469.47	602610.93	514325	1984668.46	1689164.34	76.71	
14 01-JAN-22	Visa International ... VISA	press		2503744.61	2133478.57	603505.01	515217	1900239.67	1618261.32	75.9	
15 01-JAN-22	Visa International ... VISA	production		2434144.93	2074015.27	599394.31	511831	1834750.73	1562184.17	75.38	
16 01-JAN-22	Visa International ... VISA	radio		2490963.65	2112025.26	591761.16	504659	1898202.51	1613546.07	76.24	
17 01-JAN-22	Visa International ... VISA	(null)		17493193.41	14893055.68	4189317.67	3575764	13303876.1	11317290.47	76.05	
18 01-JAN-22	Visa International ... (null)	(null)		17493193.41	14893055.68	4189317.67	3575764	13303876.1	11317290.47	76.05	
19 01-JAN-22	(null)	(null)		70046770.67	59628652.72	16740345.73	14286455	53036426.07	45342192.79	76.1	
20 01-FEB-22	Samsung Electronics	SAMSUNG	OOH	6731752.82	5730438.36	1624150.1	1385500	5107602.99	4344937.81	75.87	
21 01-FEB-22	Samsung Electronics	SAMSUNG	TV	6735013.63	5732901.65	1623972.24	1385971	5111041.6	4346930.33	75.89	
22 01-FEB-22	Samsung Electronics	SAMSUNG	design	6724411.37	5723854.77	1628800.19	1390646	5095611.09	4333208.43	75.78	

- v\_sal\_budgets\_customer\_brand

SELECT * FROM v_sal_budgets_customer_brand;											
DATE_MONTH	AGENCY_NAME	CUSTOMER_NAME	BRAND_NAME	GROSS_REVENUE	NET_REVENUE	GROSS_COST	NET_COST	GROSS_PROFIT	NET_PROFIT	MARGIN_PERCENT	
1 01-JAN-22	Starcom	Samsung Electronics	SAMSUNG	52553577.26	44735597.04	12551028.06	10710691	40002549.97	34024902.32	76.12	
2 01-JAN-22	Starcom	Samsung Electronics	(null)	52553577.26	44735597.04	12551028.06	10710691	40002549.97	34024902.32	76.12	
3 01-JAN-22	Starcom	Visa International ... VISA		17493193.41	14893019.3	4189317.68	3575764	13303876.1	11317290.47	76.05	
4 01-JAN-22	Starcom	Visa International ... (null)		17493193.41	14893019.3	4189317.67	3575764	13303876.1	11317290.47	76.05	
5 01-JAN-22	Starcom	(null)	(null)	70046770.67	59628652.72	16740345.73	14286455	53036426.07	45342192.79	76.1	
6 01-FEB-22	Starcom	Samsung Electronics	SAMSUNG	47354477.71	40308001.53	11351171.22	9686893	36003307.43	30621105.23	76.03	
7 01-FEB-22	Starcom	Samsung Electronics	(null)	47354477.71	40308001.53	11351171.22	9686893	36003307.43	30621105.23	76.03	
8 01-FEB-22	Starcom	Visa International ... VISA		15750257.33	13412401.91	3788668.37	3232524	11961589.13	10179876.96	75.95	
9 01-FEB-22	Starcom	Visa International ... (null)		15750257.33	13412401.91	3788668.37	3232524	11961589.13	10179876.96	75.95	
10 01-FEB-22	Starcom	(null)	(null)	63104735.04	53720403.44	15139839.59	12919417	47964896.56	40800982.19	76.01	
11 01-MAR-22	Starcom	Samsung Electronics	SAMSUNG	52381394.49	44591213.24	12595838.74	10750046	39785556.88	33841163.77	75.95	
12 01-MAR-22	Starcom	Samsung Electronics	(null)	52381394.49	44591213.24	12595838.74	10750046	39785556.88	33841163.77	75.95	
13 01-MAR-22	Starcom	Visa International ... VISA		17560662.94	14950319.3	4187048.81	3574006	13373614.58	11376312.22	76.16	
14 01-MAR-22	Starcom	Visa International ... (null)		17560662.94	14950319.3	4187048.81	3574006	13373614.58	11376312.22	76.16	
15 01-MAR-22	Starcom	(null)	(null)	6942057.43	5951532.54	16782887.55	14324052	53151917.46	45217475.99	76	
16 01-APR-22	Starcom	Samsung Electronics	SAMSUNG	50823746.84	43255935.83	12153592.29	10371890	38670155.48	32884042.23	76.09	
17 01-APR-22	Starcom	Samsung Electronics	(null)	50823746.84	43255935.83	12153592.29	10371890	38670155.48	32884042.23	76.09	
18 01-APR-22	Starcom	Visa International ... VISA		1687287.41	14364107.76	4043916.65	3452023	12832370.78	10912083.86	76.04	
19 01-APR-22	Starcom	Visa International ... (null)		1687287.41	14364107.76	4043916.65	3452023	12832370.78	10912083.86	76.04	
20 01-APR-22	Starcom	(null)	(null)	67700034.21	57620043.59	16197508.94	13823913	51502526.26	43796126.09	76.07	
21 01-MAY-22	Starcom	Samsung Electronics	SAMSUNG	52610648.47	44784133.06	12582709.79	10741822	40027939.9	34042307.18	76.08	
22 01-MAY-22	Starcom	Samsung Electronics	(null)	52610648.47	44784133.06	12582709.79	10741822	40027939.9	34042307.18	76.08	

- v\_sal\_employee\_salary\_total

SELECT * FROM v_sal_employee_salary_total;				
	YEAR	MONTH	PERIOD	GROSS_SALARY_EMPLOYEE
1	01-JAN-22	01-MAR-22	MONTH	16782887.55
2	01-JAN-22	01-JAN-22	MONTH	16740345.73
3	01-JAN-22	01-FEB-22	MONTH	15139839.59
4	01-JAN-22	01-APR-22	MONTH	16197508.94
5	01-JAN-22	01-MAY-22	MONTH	16768528.37
6	01-JAN-22	01-JUN-22	MONTH	16224818.16
7	01-JAN-22	01-JUL-22	MONTH	10340195.31
8	01-JAN-22	(null)	YEAR	108194123.65
9	(null)	(null)	ALL	108194123.65

- v\_sal\_KPI\_daily

SELECT * FROM v_sal_KPI_daily;								
	TIME_ID	AGENCY_NAME	AGENCY_CITY	AGENCY_COUNTRY	PROMOTION_NAME	PROMOTION_MEDIA_TYPE	PROMOTION_KP1	PROMOTION_METRIC_AMOUNT
1	01-JAN-22	Starcom	Paris	France	498 SAMSUNG_Smartphones_digital	digital	CPA	72
2	01-JAN-22	Starcom	Barcelona	Spain	506 SAMSUNG_Smartphones_digital	digital	CPL	59
3	01-JAN-22	Starcom	Paris	France	513 SAMSUNG_Headphones_digital	digital	CPL	60
4	01-JAN-22	Starcom	London	United Kingdom	555 SAMSUNG_Refrigerators_radio	radio	CPL	96
5	01-JAN-22	Starcom	Sydney	Australia	602 SAMSUNG_Dishwashers_radio	radio	CPA	18
6	01-JAN-22	Starcom	Paris	France	603 SAMSUNG_Dishwashers_radio	radio	CPA	31
7	01-JAN-22	Starcom	Warsaw	Poland	640 SAMSUNG_Vacuum Cleaners_radio	radio	CPA	41
8	01-JAN-22	Starcom	New York	United States	646 SAMSUNG_Smart watches_radio	radio	CPL	57
9	01-JAN-22	Starcom	Cairo	Egypt	654 SAMSUNG_Smart watches_radio	radio	CPA	32
10	01-JAN-22	Starcom	Paris	France	693 SAMSUNG_Headphones_radio	radio	CPL	78
11	01-JAN-22	Starcom	Milan	Italy	747 SAMSUNG_Ovens_OOH	OOH	CPA	16
12	01-JAN-22	Starcom	Nicosia	Cyprus	755 SAMSUNG_Cooking ovens_OOH	OOH	CPA	82
13	01-JAN-22	Starcom	Moscow	Russia	779 SAMSUNG_Washing machines_OOH	OOH	CPA	19
14	01-JAN-22	Starcom	Nicosia	Cyprus	785 SAMSUNG_Dishwashers_OOH	OOH	CPL	65
15	01-JAN-22	Starcom	Berlin	Germany	832 SAMSUNG_Smart watches_OOH	OOH	CPL	30
16	01-JAN-22	Starcom	Hong Kong	China	846 SAMSUNG_TVg_OOH	OOH	CPA	33
17	01-JAN-22	Starcom	Sydney	Australia	1187 SAMSUNG_Smart watches_design	design	CPA	58
18	01-JAN-22	Starcom	Paris	France	1203 SAMSUNG_TVg_design	design	CPA	10
19	01-JAN-22	Starcom	Berlin	Germany	1237 SAMSUNG_Headphones_design	design	CPA	62
20	01-JAN-22	Starcom	Hong Kong	China	1266 VISA_Sponsorship_TV	TV	CPA	82
21	01-JAN-22	Starcom	Shanghai	China	1283 VISA_Sponsorship_press	press	CPL	36
22	01-JAN-22	Starcom	London	United Kingdom	1290 VISA_Sponsorship_press	press	CPA	59

SELECT * FROM v_sal_KPI_daily;							
	COST_OF_PLACEMENT_WITHOUT_VAT	PROMOTION_DISTINCT_PERCENT	COST_WITHOUT_VAT_WITH_DISCOUNT	AGENCY_VAT_PERCENT	VAT_AMOUNT	COST_WITH_VAT_WITH_DISCOUNT	AGENCY_FEE_PERCENT
15	11160	17	9262.8	20	1852.56	11115.36	
24	57466	11	51144.74	21	10740.4	61085.14	
31	26460	13	23020.2	20	4604.04	27624.24	
46	90816	3	88091.52	20	17618.3	105709.82	
59	17442	13	15174.54	25.8	3915.03	19089.57	
66	7006	9	6375.46	20	1275.09	7650.55	
72	29602	6	27825.88	23	6399.95	34225.83	
86	37962	18	31128.84	15	4669.33	35798.17	
93	25536	17	21194.88	14	2967.28	24162.16	
104	63492	9	57777.72	20	11555.54	69333.26	
111	5456	7	5074.08	22	1116.3	6190.38	
129	32718	3	31736.46	19	6029.93	37766.39	
133	14117	16	11858.28	20	2371.66	14229.94	
145	23725	5	22538.75	19	4282.36	26821.11	
150	18000	16	15120	19	2872.8	17992.8	
165	13035	5	12383.25	13	1609.82	13993.07	
178	30624	12	26949.12	25.8	6952.87	33901.99	
186	4660	14	4007.6	20	801.52	4809.12	
191	26722	9	24317.02	19	4620.23	28937.25	
200	71340	7	66346.2	13	8625.01	74971.21	
210	14400	5	13680	13	1778.4	15458.4	
226	53454	12	47039.52	20	9407.9	56447.42	

- v\_sal\_quantity\_agency\_customer\_brand

SELECT \* FROM v\_sal\_quantity\_agency\_customer\_brand;

DATE_MONTH	AGENCY_NAME	AGENCY_CITY	AGENCY_COUNTRY	NUMBER_OF_CUSTOMERS	NUMBER_OF_BRANDS
1 01-JAN-22	Starcom	Barcelona	Spain	2	2
2 01-JAN-22	Starcom	Berlin	Germany	2	2
3 01-JAN-22	Starcom	Cairo	Egypt	2	2
4 01-JAN-22	Starcom	Dubai	UAE	2	2
5 01-JAN-22	Starcom	Hong Kong	China	2	2
6 01-JAN-22	Starcom	London	United Kingdom	2	2
7 01-JAN-22	Starcom	Milan	Italy	2	2
8 01-JAN-22	Starcom	Moscow	Russia	2	2
9 01-JAN-22	Starcom	New York	United States	2	2
10 01-JAN-22	Starcom	Nicosia	Cyprus	2	2
11 01-JAN-22	Starcom	Paris	France	2	2
12 01-JAN-22	Starcom	Shanghai	China	2	2
13 01-JAN-22	Starcom	Sydney	Australia	2	2
14 01-JAN-22	Starcom	Warsaw	Poland	2	2
15 01-JAN-22	Starcom	Zurich	Switzerland	2	2
16 01-FEB-22	Starcom	Barcelona	Spain	2	2
17 01-FEB-22	Starcom	Berlin	Germany	2	2
18 01-FEB-22	Starcom	Cairo	Egypt	2	2
19 01-FEB-22	Starcom	Dubai	UAE	2	2

- v\_sal\_quantity\_agency\_employee

SELECT \* FROM v\_sal\_quantity\_agency\_employee;

TIME_ID	AGENCY_NAME	AGENCY_CITY	AGENCY_COUNTRY	NUMBER_OF_EMPLOYEES
1 01-JAN-22	Starcom	Barcelona	Spain	69
2 01-JAN-22	Starcom	Berlin	Germany	67
3 01-JAN-22	Starcom	Cairo	Egypt	73
4 01-JAN-22	Starcom	Dubai	UAE	62
5 01-JAN-22	Starcom	Hong Kong	China	67
6 01-JAN-22	Starcom	London	United Kingdom	66
7 01-JAN-22	Starcom	Milan	Italy	68
8 01-JAN-22	Starcom	Moscow	Russia	65
9 01-JAN-22	Starcom	New York	United States	67
10 01-JAN-22	Starcom	Nicosia	Cyprus	68
11 01-JAN-22	Starcom	Paris	France	73
12 01-JAN-22	Starcom	Shanghai	China	67
13 01-JAN-22	Starcom	Sydney	Australia	71
14 01-JAN-22	Starcom	Warsaw	Poland	69
15 01-JAN-22	Starcom	Zurich	Switzerland	71
16 02-JAN-22	Starcom	Barcelona	Spain	65
17 02-JAN-22	Starcom	Berlin	Germany	69
18 02-JAN-22	Starcom	Cairo	Egypt	68
19 02-JAN-22	Starcom	Dubai	UAE	65
20 02-JAN-22	Starcom	Hong Kong	China	69

- v\_sal\_quantity\_agency\_promotion

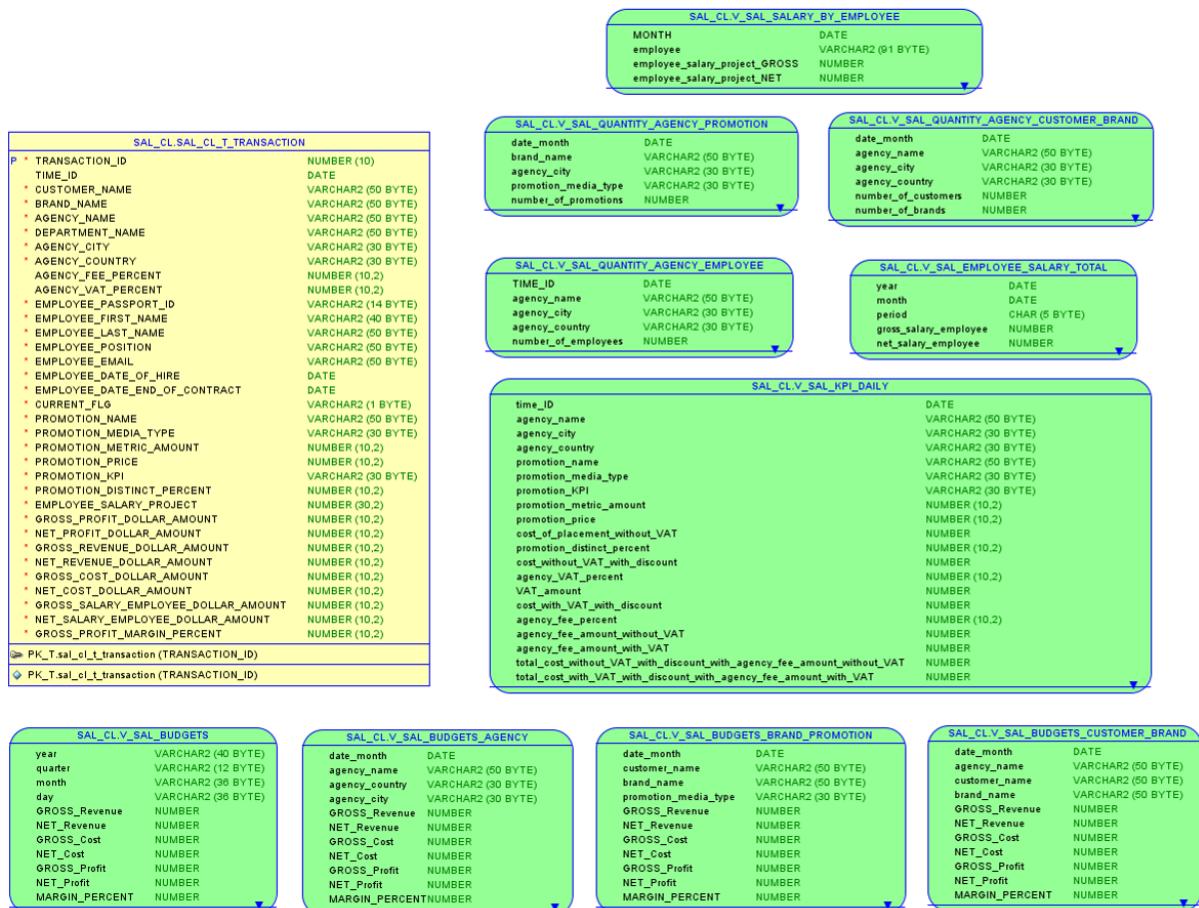
SELECT \* FROM v\_sal\_quantity\_agency\_promotion;

DATE_MONTH	BRAND_NAME	AGENCY_CITY	PROMOTION_MEDIA_TYPE	NUMBER_OF_PROMOTIONS
1 01-JAN-22	SAMSUNG	Barcelona	OOH	372
2 01-JAN-22	SAMSUNG	Barcelona	TV	372
3 01-JAN-22	SAMSUNG	Barcelona	design	372
4 01-JAN-22	SAMSUNG	Barcelona	digital	372
5 01-JAN-22	SAMSUNG	Barcelona	press	372
6 01-JAN-22	SAMSUNG	Barcelona	production	372
7 01-JAN-22	SAMSUNG	Barcelona	radio	372
8 01-JAN-22	SAMSUNG	Berlin	OOH	372
9 01-JAN-22	SAMSUNG	Berlin	TV	372
10 01-JAN-22	SAMSUNG	Berlin	design	372
11 01-JAN-22	SAMSUNG	Berlin	digital	372
12 01-JAN-22	SAMSUNG	Berlin	press	372
13 01-JAN-22	SAMSUNG	Berlin	production	372
14 01-JAN-22	SAMSUNG	Berlin	radio	372
15 01-JAN-22	SAMSUNG	Cairo	OOH	372
16 01-JAN-22	SAMSUNG	Cairo	TV	372
17 01-JAN-22	SAMSUNG	Cairo	design	372
18 01-JAN-22	SAMSUNG	Cairo	digital	372
19 01-JAN-22	SAMSUNG	Cairo	press	372
20 01-JAN-22	SAMSUNG	Cairo	production	372
21 01-JAN-22	SAMSUNG	Cairo	radio	372
22 01-JAN-22	SAMSUNG	Dubai	OOH	372

- v\_sal\_salary\_by\_employee

SELECT * FROM v_sal_salary_by_employee;			
Script Output   Query Result   Query Result 1   Query Result 2   Query Result 3   Query Result 4   Fetched 50 rows in 0.265 seconds			
MONTH	EMPLOYEE	EMPLOYEE_SALARY_PROJECT_GROSS	EMPLOYEE_SALARY_PROJECT_NET
1 01-JAN-22	Alex Abramson	170393.17	145863
2 01-JAN-22	Alex Barnes	184074.98	156585
3 01-JAN-22	Alex Campbell	148042.04	126442
4 01-JAN-22	Alex Delon	174864.68	149307
5 01-JAN-22	Alex Enderson	180045.06	153695
6 01-JAN-22	Alex Foster	165955.93	141016
7 01-JAN-22	Alex Gauss	162496	139233
8 01-JAN-22	Alex Hasse	162460.79	138569
9 01-JAN-22	Alex Joukowski	171412.3	146610
10 01-JAN-22	Alex Kendall	165351.92	141193
11 01-JAN-22	Billie Abramson	164290.77	139958
12 01-JAN-22	Billie Barnes	149192.24	127781
13 01-JAN-22	Billie Campbell	168691.97	144309
14 01-JAN-22	Billie Delon	156456.96	133395
15 01-JAN-22	Billie Enderson	157994.34	135158
16 01-JAN-22	Billie Foster	164178.78	139306
17 01-JAN-22	Billie Gauss	163494.03	139161
18 01-JAN-22	Billie Hasse	163636.69	139492
19 01-JAN-22	Billie Joukowski	168869.84	144561
20 01-JAN-22	Billie Kendall	170395.42	145371
21 01-JAN-22	Chris Abramson	158620.74	135470
22 01-JAN-22	Chris Barnes	168817.49	144056
23 01-JAN-22	Chris Campbell	170250.7	145606
24 01-JAN-22	Chris Delon	176084.13	150769

### Scheme of views



## STAR – Level

- DM\_FCT\_KPI

The screenshot shows a SQL Worksheet window with the following details:

- SQL Worksheet History:** Shows the command: `alter session set current_schema=DM_KPI;`
- Worksheet:** Shows the command: `SELECT * FROM SAL_CL.v_sal_KPI_daily;`
- Script Output:** Shows the output: `Session altered.`
- Query Result:** Shows the output of the SELECT query, which is a large table of data. The columns include TIME\_ID, AGENCY\_NAME, AGENCY\_CITY, AGENCY\_COUNTRY, PROMOTION\_NAME, PROMOTION\_MEDIA\_TYPE, PROMOTION\_KPI, PROMOTION\_METRIC\_AMOUNT, and PROMOTION\_PRIC.

TIME_ID	AGENCY_NAME	AGENCY_CITY	AGENCY_COUNTRY	PROMOTION_NAME	PROMOTION_MEDIA_TYPE	PROMOTION_KPI	PROMOTION_METRIC_AMOUNT	PROMOTION_PRIC
1	01-JAN-22 Starcom	Paris	France	498 SAMSUNG_Smartphones_digital	digital	CPA	72	15
2	01-JAN-22 Starcom	Barcelona	Spain	506 SAMSUNG_Smartphones_digital	digital	CPL	59	97
3	01-JAN-22 Starcom	Paris	France	513 SAMSUNG_Headphones_digital	digital	CPL	60	44
4	01-JAN-22 Starcom	London	United Kingdom	555 SAMSUNG_Refrigerators_radio	radio	CPL	96	94
5	01-JAN-22 Starcom	Sydney	Australia	602 SAMSUNG_Dishwashers_radio	radio	CPA	18	96
6	01-JAN-22 Starcom	Paris	France	603 SAMSUNG_Dishwashers_radio	radio	CPA	31	22
7	01-JAN-22 Starcom	Warsaw	Poland	640 SAMSUNG_Vacuum Cleaners_radio	radio	CPA	41	72
8	01-JAN-22 Starcom	New York	United States	646 SAMSUNG_Smart watches_radio	radio	CPL	57	66
9	01-JAN-22 Starcom	Cairo	Egypt	654 SAMSUNG_Smart watches_radio	radio	CPA	32	75
10	01-JAN-22 Starcom	Paris	France	693 SAMSUNG_Headphones_radio	radio	CPL	78	81
11	01-JAN-22 Starcom	Milan	Italy	747 SAMSUNG_Ovens_OOH	OOH	CPA	16	34
12	01-JAN-22 Starcom	Nicosia	Cyprus	755 SAMSUNG_Cooking ovens_OOH	OOH	CPA	82	35
13	01-JAN-22 Starcom	Moscow	Russia	779 SAMSUNG_Washing machines_OOH	OOH	CPA	19	74
14	01-JAN-22 Starcom	Nicosia	Cyprus	785 SAMSUNG_Dishwashers_OOH	OOH	CPL	65	34
15	01-JAN-22 Starcom	Berlin	Germany	833 SAMSUNG_Smart watches_OOH	OOH	CPL	30	60
16	01-JAN-22 Starcom	Hong Kong	China	846 SAMSUNG_TVs_OOH	OOH	CPA	33	35
17	01-JAN-22 Starcom	Sydney	Australia	1187 SAMSUNG_Smart watches_design	design	CPA	58	52
18	01-JAN-22 Starcom	Paris	France	1203 SAMSUNG_TVs_design	design	CPA	10	46
19	01-JAN-22 Starcom	Berlin	Germany	1237 SAMSUNG_Headphones_design	design	CPA	62	43
20	01-JAN-22 Starcom	Hong Kong	China	1266 VISA_Sponsorship_TV	TV	CPA	82	87
21	01-JAN-22 Starcom	Shanghai	China	1283 VISA_Sponsorship_press	press	CPL	36	40
22	01-JAN-22 Starcom	London	United Kingdom	1290 VISA_Sponsorship_press	press	CPA	59	90

- DM\_FCT\_BUDGET

The screenshot shows a SQL Worksheet window with the following details:

- SQL Worksheet History:** Shows the command: `alter session set current_schema=DM_BUDGET;`
- Worksheet:** Shows the command: `SELECT * FROM SAL_CL.v_sal_budgets;`
- Script Output:** Shows the output: `Session altered.`
- Query Result:** Shows the output of the SELECT query, which is a large table of data. The columns include various budget-related fields.

SQL Worksheet History

Worksheet Query Builder

```

13 :alter session set current_schema=DM_BUDGET;
14 :SELECT * FROM SAL CL.v sal budgets;

```

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3 | SQL | Fetched 50 rows in 1.633 seconds

YEAR	QUARTER	MONTH	DAY	GROSS_REVENUE	NET_REVENUE	GROSS_COST	NET_COST	GROSS_PROFIT	NET_PROFIT	MARGIN_PERCENT
1 2022	Q1	JANUARY	FRIDAY	8922144.68	7600408.7	2156825.11	1840031	6765319.87	5760377	75.83
2 2022	Q1	JANUARY	SATURDAY	11354703.33	9668032.51	2717231.58	2319191	8637472.02	7348840.73	76.07
3 2022	Q1	JANUARY	SUNDAY	11405232.28	9709098.87	2698807.81	2303655	8706424.9	7405443.06	76.34
4 2022	Q1	JANUARY	MONDAY	11215908.64	9543363.73	2688052.26	2294340	8527856.24	7249022.96	76.03
5 2022	Q1	JANUARY	TUESDAY	9041021.34	7694446.61	2152582.27	1836027	6888439.05	5858419.06	76.19
6 2022	Q1	JANUARY	WEDNESDAY	8920679.37	7589304.64	2166851.06	1849464	6753828.5	5739840.01	75.71
7 2022	Q1	JANUARY	THURSDAY	9187081.03	7823997.66	2159995.64	1843747	7027085.49	5980249.97	76.49
8 2022	Q1	FEBRUARY	TUESDAY	8990775.4	7657892.22	2171138.77	1852950	6819636.85	5804941.59	75.85
9 2022	Q1	FEBRUARY	WEDNESDAY	9055519.75	7711978.4	2156304.43	1840555	6899215.54	5871422.83	76.19
10 2022	Q1	FEBRUARY	THURSDAY	8843856.49	7530073.13	2171592.38	1853190	6672264.02	5676882.53	75.45
11 2022	Q1	FEBRUARY	FRIDAY	9145739.75	7784038.66	2154893.12	1838294	6990846.9	5945744.19	76.44
12 2022	Q1	FEBRUARY	MONDAY	8981667.69	7651819.59	2157083.58	1840688	6824584.28	5811130.91	75.98
13 2022	Q1	FEBRUARY	SATURDAY	9105782.8	7742947.32	2171004.41	1852404	6934778.58	5890542.7	76.16
14 2022	Q1	FEBRUARY	SUNDAY	8981393.16	7641654.12	2157822.9	1841336	6823570.39	5800317.44	75.97
15 2022	Q1	MARCH	TUESDAY	11256930.04	9586394.67	2717264.22	2319780	8539665.98	7266613.95	75.86
16 2022	Q1	MARCH	WEDNESDAY	11212932.28	9546489.14	2687911.03	2293649	8525021.51	7252839.39	76.03
17 2022	Q1	MARCH	THURSDAY	11196340.35	9529929.32	2716553.62	2318527	8479786.65	7211401.57	75.74
18 2022	Q1	MARCH	FRIDAY	9159264.96	7797664.65	2177545.92	1857760	6981719.44	5939904.14	76.23
19 2022	Q1	MARCH	SUNDAY	9068968.94	7718943.36	2144383.71	1831048	6924585.43	5887894.79	76.35
20 2022	Q1	MARCH	MONDAY	9041810.8	7694432.68	2169146.76	1851351	6872664.29	5843081.11	76.01
21 2022	Q1	MARCH	SATURDAY	9005810.06	7667678.72	2170082.29	1851937	6835728.16	5815741.04	75.9
22 2022	Q2	MAY	WEDNESDAY	9106390.06	7750502.8	2169644.67	1851853	6936745.43	5898649.11	76.17
23 2022	Q2	MAY	THURSDAY	9223696.48	7851941.76	2174064.12	1855787	7049632.61	5996154.07	76.43
24 2022	Q2	APRIL	MONDAY	9142060.92	7778358.73	2169222.52	1849706	6973838.51	5928652.14	76.28

15 :SELECT \* FROM SAL CL.v sal budgets agency;

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3 | SQL | Fetched 50 rows in 1.159 seconds

DATE_MONTH	AGENCY_NAME	AGENCY_COUNTRY	AGENCY_CITY	GROSS_REVENUE	NET_REVENUE	GROSS_COST	NET_COST	GROSS_PROFIT	NET_PROFIT	MARGIN_PERCENT
1 01-JAN-22	Starcom	Australia	Sydney	1087492.15	864461.89	1216541.38	967044	-129049.34	-102582.84	-11.87
2 01-JAN-22	Starcom	Australia	(null)	1087492.15	864461.89	1216541.38	967044	-129049.34	-102582.84	-11.87
3 01-JAN-22	Starcom	China	Hong Kong	4818889.61	4264505.61	1066093.98	943446	3752795.63	3321059.06	77.88
4 01-JAN-22	Starcom	China	Shanghai	4823823.53	4268872	1070868.23	947671	3752955.28	3321200.5	77.8
5 01-JAN-22	Starcom	China	(null)	9642713.14	8533377.61	2136962.21	1891117	7505750.91	6642259.56	77.84
6 01-JAN-22	Starcom	Cyprus	Nicosia	7149559.25	6008033.44	1130876.04	950316	6018683.21	5057717.36	84.18
7 01-JAN-22	Starcom	Cyprus	(null)	7149559.25	6008033.44	1130876.04	950316	6018683.21	5057717.36	84.18
8 01-JAN-22	Starcom	Egypt	Cairo	4797528.32	4208360	1087516.68	953962	3710011.63	3254397.4	77.33
9 01-JAN-22	Starcom	Egypt	(null)	4797528.32	4208360	1087516.68	953962	3710011.63	3254397.4	77.33
10 01-JAN-22	Starcom	France	Paris	2054998.63	1712499.22	1146770.4	955642	908228.23	756856.86	44.2
11 01-JAN-22	Starcom	France	(null)	2054998.63	1712499.22	1146770.4	955642	908228.23	756856.86	44.2
12 01-JAN-22	Starcom	Germany	Berlin	2949625.12	2478677.1	1146626.88	963552	1802998.23	1515124.78	61.13
13 01-JAN-22	Starcom	Germany	(null)	2949625.12	2478677.1	1146626.88	963552	1802998.23	1515124.78	61.13
14 01-JAN-22	Starcom	Italy	Milan	2103569.9	1724237.91	1152236.32	944456	951333.57	779781.63	45.22
15 01-JAN-22	Starcom	Italy	(null)	2103569.9	1724237.91	1152236.32	944456	951333.57	779781.63	45.22
16 01-JAN-22	Starcom	Poland	Warsaw	8488847.91	6901502.46	1170750.9	951830	7318097.01	5949672.46	86.21
17 01-JAN-22	Starcom	Poland	(null)	8488847.91	6901502.46	1170750.9	951830	7318097.01	5949672.46	86.21
18 01-JAN-22	Starcom	Russia	Moscow	7040378.11	5866982.04	1140723.6	950603	5899654.47	4916378.91	83.8
19 01-JAN-22	Starcom	Russia	(null)	7040378.11	5866982.04	1140723.6	950603	5899654.47	4916378.91	83.8
20 01-JAN-22	Starcom	Spain	Barcelona	9213490.01	7614455.25	1146367.31	947411	8067122.7	6667044.21	87.56
21 01-JAN-22	Starcom	Spain	(null)	9213490.01	7614455.25	1146367.31	947411	8067122.7	6667044.21	87.56
22 01-JAN-22	Starcom	Switzerland	Zurich	1819977.79	1689858.98	1029297.11	955706	790682.25	734152.73	43.44
23 01-JAN-22	Starcom	Switzerland	(null)	1819977.79	1689858.98	1029297.11	955706	790682.25	734152.73	43.44
24 01-JAN-22	Starcom	UAE	Dubai	3594096.88	3422949.19	994671.3	947306	2599425.56	2475643.19	72.32

16 | SELECT \* FROM SAL\_CL.v\_sal\_budgets\_brand\_promotion;

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3 | Fetched 50 rows in 0.86 seconds

DATE_MONTH	CUSTOMER_NAME	BRAND_NAME	PROMOTION_MEDIA_TYPE	GROSS_REVENUE	NET_REVENUE	GROSS_COST	NET_COST	GROSS_PROFIT	NET_PROFIT
1 01-JAN-22	Samsung Electronics	SAMSUNG	OOH	7525615.2	6407143.1	1788792.18	1526617	5736822.98	4880525.58
2 01-JAN-22	Samsung Electronics	SAMSUNG	TV	7461399.43	6353431.32	1801945.49	1537325	5659453.99	4816105.81
3 01-JAN-22	Samsung Electronics	SAMSUNG	design	7562196.92	6440957.32	1780881.78	1519656	5781315.24	4921300.81
4 01-JAN-22	Samsung Electronics	SAMSUNG	digital	7464536.97	6350401.76	18008945.6	1544987	5655591.83	4805414.25
5 01-JAN-22	Samsung Electronics	SAMSUNG	press	7345701.64	6253298.14	1790200.08	1527649	5555501.43	4725648.52
6 01-JAN-22	Samsung Electronics	SAMSUNG	production	7692866.68	6541351.1	1787128.51	1524469	5905738.56	5016881.53
7 01-JAN-22	Samsung Electronics	SAMSUNG	radio	7501260.42	6389014.3	1793134.42	1529988	5708125.94	4859025.82
8 01-JAN-22	Samsung Electronics	SAMSUNG	(null)	52553577.26	44735597.04	12551028.06	10710691	40002549.97	34024902.32
9 01-JAN-22	Samsung Electronics	SAMSUNG	(null)	52553577.26	44735597.04	12551028.06	10710691	40002549.97	34024902.32
10 01-JAN-22	Visa International Service Association	VISA	OOH	2478543.57	2108978.24	597828.06	510378	1880715.54	1598600.05
11 01-JAN-22	Visa International Service Association	VISA	TV	2492309.11	2121202.81	607222.65	518101	1885086.51	1603101.68
12 01-JAN-22	Visa International Service Association	VISA	design	2506208.14	2134686.06	586995.55	501253	1919212.68	1633432.84
13 01-JAN-22	Visa International Service Association	VISA	digital	2587279.4	2202489.47	602610.93	514325	1984668.46	1688164.34
14 01-JAN-22	Visa International Service Association	VISA	press	2503744.61	2133478.57	603505.01	515217	1900239.67	1618261.32
15 01-JAN-22	Visa International Service Association	VISA	production	2434144.93	2074015.27	599394.31	511831	1834750.73	1562184.17
16 01-JAN-22	Visa International Service Association	VISA	radio	2490963.65	2118205.26	591761.16	504659	1899202.51	1613546.07
17 01-JAN-22	Visa International Service Association	VISA	(null)	17493193.41	14893055.68	4189317.67	3575764	13303876.1	11317290.47
18 01-JAN-22	Visa International Service Association	VISA	(null)	17493193.41	14893055.68	4189317.67	3575764	13303876.1	11317290.47
19 01-JAN-22	(null)	(null)	(null)	70046770.67	59628652.72	16740345.73	14286455	53306426.07	45342192.79
20 01-FEB-22	Samsung Electronics	SAMSUNG	OOH	6731752.82	5730438.36	1624150.1	1385500	5107602.99	4344937.81
21 01-FEB-22	Samsung Electronics	SAMSUNG	TV	6735013.63	5732901.65	1623972.24	1385971	5111041.6	4346930.33
22 01-FEB-22	Samsung Electronics	SAMSUNG	design	6724411.37	5723854.77	1628800.19	1390646	5095611.09	4333208.43
23 01-FEB-22	Samsung Electronics	SAMSUNG	digital	6816617.8	5798686.44	1616838	1379417	5199779.89	4419268.94
24 01-FEB-22	Samsung Electronics	SAMSUNG	press	6766210.12	5755367.51	1601507.05	12860488	5154703.31	4205612.04

17 | SELECT \* FROM SAL\_CL.v\_sal\_budgets\_customer\_brand;

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3 | All Rows Fetched: 35 in 1.189 seconds

DATE_MONTH	AGENCY_NAME	CUSTOMER_NAME	BRAND_NAME	GROSS_REVENUE	NET_REVENUE	GROSS_COST	NET_COST	GROSS_PROFIT	NET_PROFIT	MARGIN_PERCENT
1 01-JAN-22	Starcom	Samsung Electronics	SAMSUNG	52553577.26	44735597.04	12551028.06	10710691	40002549.97	34024902.32	76.12
2 01-JAN-22	Starcom	Samsung Electronics	(null)	52553577.26	44735597.04	12551028.06	10710691	40002549.97	34024902.32	76.12
3 01-JAN-22	Starcom	Visa International ...	VISA	17493193.41	14893055.68	4189317.67	3575764	13303876.1	11317290.47	76.05
4 01-JAN-22	Starcom	Visa International ...	(null)	17493193.41	14893055.68	4189317.67	3575764	13303876.1	11317290.47	76.05
5 01-JAN-22	Starcom	(null)	(null)	70046770.67	59628652.72	16740345.73	14286455	53306426.07	45342192.79	76.1
6 01-FEB-22	Starcom	Samsung Electronics	SAMSUNG	47354477.71	40308001.53	11351171.22	9686893	36003307.43	30621105.23	76.03
7 01-FEB-22	Starcom	Samsung Electronics	(null)	47354477.71	40308001.53	11351171.22	9686893	36003307.43	30621105.23	76.03
8 01-FEB-22	Starcom	Visa International ...	VISA	15750257.33	13412401.91	3788668.37	3232524	11961589.13	10179876.96	75.95
9 01-FEB-22	Starcom	Visa International ...	(null)	15750257.33	13412401.91	3788668.37	3232524	11961589.13	10179876.96	75.95
10 01-FEB-22	Starcom	(null)	(null)	63104735.04	53720403.44	15139839.59	12919417	47964896.56	40800982.19	76.01
11 01-MAR-22	Starcom	Samsung Electronics	SAMSUNG	52381394.49	44591213.24	12595838.74	10750046	39785556.88	33841163.77	75.95
12 01-MAR-22	Starcom	Samsung Electronics	(null)	52381394.49	44591213.24	12595838.74	10750046	39785556.88	33841163.77	75.95
13 01-MAR-22	Starcom	Visa International ...	VISA	17560662.94	14950319.3	4187048.81	3574006	13373614.58	11376312.22	76.16
14 01-MAR-22	Starcom	Visa International ...	(null)	17560662.94	14950319.3	4187048.81	3574006	13373614.58	11376312.22	76.16
15 01-MAR-22	Starcom	(null)	(null)	6942057.43	59541532.54	16792887.55	14324052	53159171.46	45217475.99	76
16 01-APR-22	Starcom	Samsung Electronics	SAMSUNG	50823746.84	43259593.83	12153592.29	10371890	38670155.48	32884042.23	76.09
17 01-APR-22	Starcom	Samsung Electronics	(null)	50823746.84	43259593.83	12153592.29	10371890	38670155.48	32884042.23	76.09
18 01-APR-22	Starcom	Visa International ...	VISA	16876287.41	14364107.76	4043916.65	3452023	12832370.78	10912083.86	76.04
19 01-APR-22	Starcom	Visa International ...	(null)	16876287.41	14364107.76	4043916.65	3452023	12832370.78	10912083.86	76.04
20 01-APR-22	Starcom	(null)	(null)	67700034.59	57620043.59	16197508.94	13823913	51502526.26	43796126.09	76.07
21 01-MAY-22	Starcom	Samsung Electronics	SAMSUNG	52610648.47	44784133.06	12582709.79	10741822	40027939.9	34042307.18	76.08
22 01-MAY-22	Starcom	Samsung Electronics	(null)	52610648.47	44784133.06	12582709.79	10741822	40027939.9	34042307.18	76.08
23 01-MAY-22	Starcom	Visa International ...	VISA	17429900.83	14838126.99	4185818.58	3571925	13244082.89	11266200.56	75.98
24 01-MAY-22	Starcom	Visa International ...	(null)	17429900.83	14838126.99	4185818.58	3571925	13244082.89	11266200.56	75.98

## • DM\_FCT\_QUANTITY

Welcome Page | VeraDB | DM\_FCT\_QUANTITY.sql | Worksheet | History

```
alter session set current_schema=DM_QUANTITY;
SELECT * FROM SAL_CL.v_sal_quantity_agency_promotion;
SELECT * FROM SAL_CL.v_sal_quantity_agency_customer_brand;
SELECT * FROM SAL_CL.v_sal_quantity_agency_employee;
SELECT * FROM SAL_CL.v_sal_quantity_agency_promotion;
```

Script Output | Query Result | Query Result 1 | Query Result 2 | Query Result 3 | Task completed in 1.437 seconds

Session altered.

13 | alter session set current\_schema=DM\_QUANTITY;  
14 | SELECT \* FROM SAL\_CL.v\_sal\_quantity\_agency\_promotion;

Script Output | Query Result | Fetched 250 rows in 0.279 seconds

	DATE_MONTH	BRAND_NAME	AGENCY_CITY	PROMOTION_MEDIA_TYPE	NUMBER_OF_PROMOTIONS
1	01-JAN-22	SAMSUNG	Barcelona	OOH	372
2	01-JAN-22	SAMSUNG	Barcelona	TV	372
3	01-JAN-22	SAMSUNG	Barcelona	design	372
4	01-JAN-22	SAMSUNG	Barcelona	digital	372
5	01-JAN-22	SAMSUNG	Barcelona	press	372
6	01-JAN-22	SAMSUNG	Barcelona	production	372
7	01-JAN-22	SAMSUNG	Barcelona	radio	372
8	01-JAN-22	SAMSUNG	Berlin	OOH	372
9	01-JAN-22	SAMSUNG	Berlin	TV	372
10	01-JAN-22	SAMSUNG	Berlin	design	372
11	01-JAN-22	SAMSUNG	Berlin	digital	372
12	01-JAN-22	SAMSUNG	Berlin	press	372
13	01-JAN-22	SAMSUNG	Berlin	production	372
14	01-JAN-22	SAMSUNG	Berlin	radio	372
15	01-JAN-22	SAMSUNG	Cairo	OOH	372
16	01-JAN-22	SAMSUNG	Cairo	TV	372
17	01-JAN-22	SAMSUNG	Cairo	design	372
18	01-JAN-22	SAMSUNG	Cairo	digital	372
19	01-JAN-22	SAMSUNG	Cairo	press	372
20	01-JAN-22	SAMSUNG	Cairo	production	372
21	01-JAN-22	SAMSUNG	Cairo	radio	372
22	01-JAN-22	SAMSUNG	Dubai	OOH	372

15 | SELECT \* FROM SAL\_CL.v\_sal\_quantity\_agency\_customer\_brand;

Script Output | Query Result | Fetched 50 rows in 0.24 seconds

	DATE_MONTH	AGENCY_NAME	AGENCY_CITY	AGENCY_COUNTRY	NUMBER_OF_CUSTOMERS	NUMBER_OF_BRANDS
1	01-JAN-22	Starcom	Barcelona	Spain	2	2
2	01-JAN-22	Starcom	Berlin	Germany	2	2
3	01-JAN-22	Starcom	Cairo	Egypt	2	2
4	01-JAN-22	Starcom	Dubai	UAE	2	2
5	01-JAN-22	Starcom	Hong Kong	China	2	2
6	01-JAN-22	Starcom	London	United Kingdom	2	2
7	01-JAN-22	Starcom	Milan	Italy	2	2
8	01-JAN-22	Starcom	Moscow	Russia	2	2
9	01-JAN-22	Starcom	New York	United States	2	2
10	01-JAN-22	Starcom	Nicosia	Cyprus	2	2
11	01-JAN-22	Starcom	Paris	France	2	2
12	01-JAN-22	Starcom	Shanghai	China	2	2
13	01-JAN-22	Starcom	Sydney	Australia	2	2
14	01-JAN-22	Starcom	Warsaw	Poland	2	2
15	01-JAN-22	Starcom	Zurich	Switzerland	2	2
16	01-FEB-22	Starcom	Barcelona	Spain	2	2
17	01-FEB-22	Starcom	Berlin	Germany	2	2
18	01-FEB-22	Starcom	Cairo	Egypt	2	2
19	01-FEB-22	Starcom	Dubai	UAE	2	2
20	01-FEB-22	Starcom	Hong Kong	China	2	2
21	01-FEB-22	Starcom	London	United Kingdom	2	2
22	01-FEB-22	Starcom	Milan	Italy	2	2
23	01-FEB-22	Starcom	Moscow	Russia	2	2

16 | SELECT \* FROM SAL\_CL.v\_sal\_quantity\_agency\_employee;

Script Output | Query Result | Fetched 50 rows in 0.254 seconds

	TIME_ID	AGENCY_NAME	AGENCY_CITY	AGENCY_COUNTRY	NUMBER_OF_EMPLOYEES
1	01-JAN-22	Starcom	Barcelona	Spain	69
2	01-JAN-22	Starcom	Berlin	Germany	67
3	01-JAN-22	Starcom	Cairo	Egypt	73
4	01-JAN-22	Starcom	Dubai	UAE	62
5	01-JAN-22	Starcom	Hong Kong	China	67
6	01-JAN-22	Starcom	London	United Kingdom	66
7	01-JAN-22	Starcom	Milan	Italy	68
8	01-JAN-22	Starcom	Moscow	Russia	65
9	01-JAN-22	Starcom	New York	United States	67
10	01-JAN-22	Starcom	Nicosia	Cyprus	68
11	01-JAN-22	Starcom	Paris	France	73
12	01-JAN-22	Starcom	Shanghai	China	67
13	01-JAN-22	Starcom	Sydney	Australia	71
14	01-JAN-22	Starcom	Warsaw	Poland	69
15	01-JAN-22	Starcom	Zurich	Switzerland	71
16	02-JAN-22	Starcom	Barcelona	Spain	65
17	02-JAN-22	Starcom	Berlin	Germany	69
18	02-JAN-22	Starcom	Cairo	Egypt	68
19	02-JAN-22	Starcom	Dubai	UAE	65
20	02-JAN-22	Starcom	Hong Kong	China	69
21	02-JAN-22	Starcom	London	United Kingdom	75
22	02-JAN-22	Starcom	Milan	Italy	67
23	02-JAN-22	Starcom	Moscow	Russia	73

17 | SELECT \* FROM SAL\_CL.v\_sal\_quantity\_agency\_promotion;

18 |

Script Output x | Query Result x | Query Result 1 x | Query Result 2 x | Query Result 3 x |

SQL | Fetched 50 rows in 0.192 seconds

	DATE_MONTH	BRAND_NAME	AGENCY_CITY	PROMOTION_MEDIA_TYPE	NUMBER_OF_PROMOTIONS
1	01-JAN-22	SAMSUNG	Barcelona	OOH	372
2	01-JAN-22	SAMSUNG	Barcelona	TV	372
3	01-JAN-22	SAMSUNG	Barcelona	design	372
4	01-JAN-22	SAMSUNG	Barcelona	digital	372
5	01-JAN-22	SAMSUNG	Barcelona	press	372
6	01-JAN-22	SAMSUNG	Barcelona	production	372
7	01-JAN-22	SAMSUNG	Barcelona	radio	372
8	01-JAN-22	SAMSUNG	Berlin	OOH	372
9	01-JAN-22	SAMSUNG	Berlin	TV	372
10	01-JAN-22	SAMSUNG	Berlin	design	372
11	01-JAN-22	SAMSUNG	Berlin	digital	372
12	01-JAN-22	SAMSUNG	Berlin	press	372
13	01-JAN-22	SAMSUNG	Berlin	production	372
14	01-JAN-22	SAMSUNG	Berlin	radio	372
15	01-JAN-22	SAMSUNG	Cairo	OOH	372
16	01-JAN-22	SAMSUNG	Cairo	TV	372
17	01-JAN-22	SAMSUNG	Cairo	design	372
18	01-JAN-22	SAMSUNG	Cairo	digital	372
19	01-JAN-22	SAMSUNG	Cairo	press	372
20	01-JAN-22	SAMSUNG	Cairo	production	372
21	01-JAN-22	SAMSUNG	Cairo	radio	372
22	01-JAN-22	SAMSUNG	Dubai	OOH	372
23	01-JAN-22	SAMSUNG	Dubai	TV	372

- DM\_FCT\_SALARY

Welcome Page x | VeraDB x | DM\_FCT\_SALARY.sql x |

SQL Worksheet History

|> |< |<< |>> |<<< |>>> |<<<< |>>>> |<<<<< |>>>>> |

Worksheet | Query Builder

```
alter session set current_schema=DM_SALARY;
SELECT * FROM SAL_CL.v_sal_salary_by_employee;
SELECT * FROM SAL_CL.v_sal_employee_salary_total;
```

Script Output x | Query Result x | Query Result 1 x |

SQL | Task completed in 0.853 seconds

Session altered.

12 | SELECT \* FROM SAL\_CL.v\_sal\_employee\_salary\_total;

13 |

Script Output x | Query Result x | Query Result 1 x |

All Rows Fetched: 9 in 0.275 seconds

SQL |

	YEAR	MONTH	PERIOD	GROSS_SALARY_EMPLOYEE	NET_SALARY_EMPLOYEE
1	01-JAN-22	01-MAR-22	MONTH	16782887.55	14324052
2	01-JAN-22	01-JAN-22	MONTH	16740345.73	14286455
3	01-JAN-22	01-FEB-22	MONTH	15139839.59	12919417
4	01-JAN-22	01-APR-22	MONTH	16197508.94	13823913
5	01-JAN-22	01-MAY-22	MONTH	16768528.37	14313747
6	01-JAN-22	01-JUN-22	MONTH	16224818.16	13847563
7	01-JAN-22	01-JUL-22	MONTH	10340195.31	8826010
8	01-JAN-22	(null)	YEAR	108194123.65	92341157
9	(null)	(null)	ALL	108194123.65	92341157

```

10 | alter session set current_schema=DM_SALARY;
11 | SELECT * FROM SAL_CL.v_sal_salary_by_employee;

```

Script Output x Query Result x Query Result 1 x

SQL | Fetched 50 rows in 0.301 seconds

MONTH	EMPLOYEE	EMPLOYEE_SALARY_PROJECT_GROSS	EMPLOYEE_SALARY_PROJECT_NET
1 01-JAN-22	Alex Abramson	170393.17	145863
2 01-JAN-22	Alex Barnes	184074.98	156505
3 01-JAN-22	Alex Campbell	148042.04	126442
4 01-JAN-22	Alex Delon	174864.68	149307
5 01-JAN-22	Alex Enderson	180045.06	153695
6 01-JAN-22	Alex Foster	165955.93	141016
7 01-JAN-22	Alex Gauss	162496	139233
8 01-JAN-22	Alex Hasse	162460.79	138569
9 01-JAN-22	Alex Joukowski	171412.3	146610
10 01-JAN-22	Alex Kendall	165351.92	141193
11 01-JAN-22	Billie Abramson	164290.77	139958
12 01-JAN-22	Billie Barnes	149192.24	127781
13 01-JAN-22	Billie Campbell	168691.97	144309
14 01-JAN-22	Billie Delon	156456.96	133395
15 01-JAN-22	Billie Enderson	157994.34	135158
16 01-JAN-22	Billie Foster	164178.78	139306
17 01-JAN-22	Billie Gauss	163494.03	139161
18 01-JAN-22	Billie Hasse	163636.69	139492
19 01-JAN-22	Billie Joukowski	168869.84	144561
20 01-JAN-22	Billie Kendall	170395.42	145371

## Result Task 02: Performance comparison

Create summarize table with comparison performance of the monthly reports at different levels.

- Monthly salary data for employees for the year 2022 on the SA level.

```

/*U02_Lab2 Monthly salary data for employees for the year 2022 on the SA level.*/
alter session set current_schema=sa_promotions;
select
    TRUNC(TIME_ID, 'YYYY') AS YEAR,
    TRUNC(TIME_ID, 'MM') AS MONTH,
    SUM(ROUND(employee_salary_project*(1+ agency_VAT_percent/100),2)) as gross_salary_empl,
    SUM(employee_salary_project) as net_salary_employee_dollar_amount
from SA_TRANSACTION
GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC (TIME_ID, 'MM'))
HAVING
    (TRUNC(TIME_ID, 'YYYY') IS NOT NULL
    AND
    TRUNC(TIME_ID, 'MM') IS NOT NULL)
order by TRUNC(TIME_ID, 'YYYY'), TRUNC (TIME_ID, 'MM');

```

Script Output x Query Result x Explain Plan x

SQL | All Rows Fetched: 7 in 0.239 seconds

YEAR	MONTH	GROSS_SALARY_EMPLOYEE_DOLLAR_AMOUNT	NET_SALARY_EMPLOYEE_DOLLAR_AMOUNT
1 01-JAN-22	01-JAN-22	16740345.73	14286455
2 01-JAN-22	01-FEB-22	15139839.59	12919417
3 01-JAN-22	01-MAR-22	16782887.55	14324052
4 01-JAN-22	01-APR-22	16197508.94	13823913
5 01-JAN-22	01-MAY-22	16768528.37	14313747
6 01-JAN-22	01-JUN-22	16224818.16	13847563
7 01-JAN-22	01-JUL-22	10340195.31	8826010

Welcome Page VeraDB Lab11\_3.1.Task 03.sql

SQL Worksheet History 0.032 seconds

Worksheet Query Builder

```

1 /*Q02_Lab2 Monthly salary data for employees for the year 2022 on the SA level.*/
2
3 alter session set current_schema=sa_promotions;
4 SET AUTOTRACE ON;
5 select
6   TRUNC(TIME_ID, 'YYYY') AS YEAR,
7   TRUNC(TIME_ID, 'MM') AS MONTH,
8   SUM(ROUND(employee_salary_project*(1+ agency_VAT_percent/100),2)) as gross_salary_employee_dollar_amount,
9   SUM(employee_salary_project) as net_salary_employee_dollar_amount
10 from SA_TRANSACTION
11 GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
12 HAVING
13   (TRUNC(TIME_ID, 'YYYY')) IS NOT NULL
14   AND
15   (TRUNC(TIME_ID, 'MM')) IS NOT NULL
16 order by TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM');

```

Script Output | Explain Plan | Query Result | SQL

0.032 seconds

OPERATION	OBJECT_NAME	OPTIONS	CARDINALITY	COST
SELECT STATEMENT			200	3174
SORT		ORDER BY	200	3174
FILTER				
AND				
TRUNC(INTERNAL_FUNCTION(TIME_ID),fmYYYY) IS NOT NULL				
TRUNC(INTERNAL_FUNCTION(TIME_ID),fmMM) IS NOT NULL				
HASH	SA_PROMOTIONS.SA_TRANSACTION	GROUP BY FULL	200	3174
Other XML			336000	3160
{info}				
info type='has_user_tab'				
yes				

Welcome Page VeraDB Lab11\_3.1.Task 03.sql

Connections Oracle Connections VeraDB

SQL Worksheet History 0.032 seconds

Worksheet Query Builder

```

1 /*Q02_Lab2 Monthly salary data for employees for the year 2022 on the SA level.*/
2
3 alter session set current_schema=sa_promotions;
4 SET AUTOTRACE ON;
5 select
6   TRUNC(TIME_ID, 'YYYY') AS YEAR,
7   TRUNC(TIME_ID, 'MM') AS MONTH,
8   SUM(ROUND(employee_salary_project*(1+ agency_VAT_percent/100),2)) as gross_salary_employee_dollar_amount,
9   SUM(employee_salary_project) as net_salary_employee_dollar_amount
10 from SA_TRANSACTION
11 GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
12 HAVING
13   (TRUNC(TIME_ID, 'YYYY')) IS NOT NULL
14   AND
15   (TRUNC(TIME_ID, 'MM')) IS NOT NULL
16 order by TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM');

```

Script Output | Explain Plan | Query Result | SQL

0.032 seconds

OPERATION	OBJECT_NAME	OPTIONS	CARDINALITY	COST
SELECT STATEMENT			200	3174
SORT		ORDER BY	200	3174
FILTER				
AND				
TRUNC(INTERNAL_FUNCTION(TIME_ID),fmYYYY) IS NOT NULL				
TRUNC(INTERNAL_FUNCTION(TIME_ID),fmMM) IS NOT NULL				
HASH		GROUP BY	200	3174

Reports All Reports Data Dictionary Reports Data Modeler Reports OLAP Reports TimesTen Reports User Defined Reports

SQL History

SQL	Connection	TimeStamp	Type	Executed	Duration(sec...)
select TRUNC(TIME_ID, 'YYYY') AS YEAR, TRUNC(TIME_ID, 'MM') AS MONTH	VeraDB	21-AUG-22 ...	SQL	4	0.205

Welcome Page VeraDB Lab11\_3.1.Task 03.sql

SQL Worksheet History

Worksheet Query Builder

```

4 SET AUTOTRACE ON;
5 select
6   TRUNC(TIME_ID, 'YYYY') AS YEAR,
7   TRUNC(TIME_ID, 'MM') AS MONTH,
8   SUM(ROUND(employee_salary_project*(1+ agency_VAT_percent/100),2)) as gross_salary_employee_dollar_amount,
9   SUM(employee_salary_project) as net_salary_employee_dollar_amount
10 from SA_TRANSACTION
11 GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
12 HAVING
13   (TRUNC(TIME_ID, 'YYYY')) IS NOT NULL
14   AND
15   (TRUNC(TIME_ID, 'MM')) IS NOT NULL
16 order by TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM');

```

Script Output | Explain Plan | Task completed in 0.762 seconds

PLAN\_TABLE\_OUTPUT

Plan hash value: 1015988372

Id	Operation	Name	E-Rows	OMem	IMem	Used-Mem
0	SELECT STATEMENT					
1	SORT ORDER BY		200	2048	2048	2048 (0)
2	FILTER					
3	HASH GROUP BY		200	696K	696K	
4	TABLE ACCESS FULL	SA_TRANSACTION	336K			

PLAN\_TABLE\_OUTPUT

Welcome Page VeraDB Lab11\_3.1.Task 03.sql

SQL Worksheet History

Worksheet Query Builder

```

2 |
3 alter session set current_schema=sa_promotions;
4 set autotrace traceonly;
5 select
6   TRUNC(TIME_ID, 'YYYY') AS YEAR,
7   TRUNC(TIME_ID, 'MM') AS MONTH,
8   SUM(ROUND(employee_salary_project*(1+agency_VAT_percent/100),2)) AS gross_salary_employee_dollar_amount,
9   SUM(employee_salary_project) AS net_salary_employee_dollar_amount
10 from SA_TRANSACTION
11 GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
12 HAVING
13   (TRUNC(TIME_ID, 'YYYY')) IS NOT NULL
14

```

Script Output x | Task completed in 0.825 seconds

Statistics

```

21 CPU used by this session
21 CPU used when call started
21 DB time
6 Requests to/from client
6091 consistent gets
6091 consistent gets from cache
6091 consistent gets pin
6091 consistent gets pin (fastpath)
6 non-idle wait count
2 opened cursors cumulative
-1 opened cursors current
-1 pinned cursors current
1 process last non-idle time
6091 session logical reads
8 user calls

```

- Monthly salary data for employees for the year 2022 using Module Clause on the DW level.

Welcome Page VeraDB Lab11\_3.1.Task 03.sql

SQL Worksheet History

Worksheet Query Builder

```

21 alter session set current_schema=DW_DATA;
22 |
23 WITH salary_employees AS (
24   SELECT TRUNC(TIME_ID, 'YYYY') AS year,
25         TRUNC(TIME_ID, 'MM') AS month, 'MONTH' period
26   , SUM(ROUND(employee_salary_project*(1+agency_VAT_percent/100),2)) AS gross_salary_employee_dollar_amount,
27   , SUM(employee_salary_project) AS net_salary_employee_dollar_amount
28   FROM DW_CL.cls_t_transaction
29   GROUP BY TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM')
30
31   select year, month, period, gross_salary_employee_dollar_amount, net_salary_employee_dollar_amount
32   from salary_employees
33   MODEL
34     DIMENSION BY (year, month, period)
35     MEASURES (gross_salary_employee_dollar_amount, net_salary_employee_dollar_amount)
36     RULES(
37       gross_salary_employee_dollar_amount FOR year IN (SELECT DISTINCT year FROM salary_employees),

```

Script Output x | All Rows Fetched: 9 in 0.237 seconds

YEAR	MONTH	PERIOD	GROSS_SALARY_EMPLOYEE_DOLLAR_AMOUNT	NET_SALARY_EMPLOYEE_DOLLAR_AMOUNT
1 01-JAN-22	01-JAN-22	MONTH	16740345.73	14286455
2 01-JAN-22	01-FEB-22	MONTH	15139839.59	12919417
3 01-JAN-22	01-MAR-22	MONTH	16782887.55	14324052
4 01-JAN-22	01-APR-22	MONTH	16197508.94	13823913
5 01-JAN-22	01-MAY-22	MONTH	16768528.37	14313747
6 01-JAN-22	01-JUN-22	MONTH	16224818.16	13847563
7 01-JAN-22	01-JUL-22	MONTH	10340195.31	8826010
8 01-JAN-22	(null)	YEAR	108194123.65	92341157
9 (null)	(null)	ALL	108194123.65	92341157

Welcome Page Lab11\_3.1.Task 03.sql

SQL Worksheet History 0.4569999 seconds

Worksheet Query Builder

```

21 alter session set current_schema=DW_DATA;
22 |
23 WITH salary_employees AS (
24   SELECT TRUNC(TIME_ID, 'YYYY') AS year,
25     TRUNC (TIME_ID, 'MM') AS month, 'MONTH' period
26 ,SUM (ROUND(employee_salary.project*(1+agency_VAT_percent/100),2)) as gross_salary_employee_dollar_amount_
27 ,SUM (employee_salary.project) as net_salary_employee_dollar_amount
28   FROM DW_CL.cls_t_transaction
29 GROUP BY TRUNC(TIME_ID, 'YYYY'), TRUNC (TIME_ID, 'MM')
30 |
31 select year, month, period, gross_salary_employee_dollar_amount, net_salary_employee_dollar_amount
32 from salary_employees
33 MODEL
34   DIMENSION BY ( year, month, period)
35   MEASURES ( gross_salary_employee_dollar_amount, net_salary_employee_dollar_amount)

```

Script Output × Explain Plan ×

SQL 0.457 seconds

OPERATION	OBJECT_NAME	OPTIONS	CARDINALITY	COST
SELECT STATEMENT			200	3412
TEMP TABLE TRANSFORMATION		(CURSOR DURATION MEMORY)		
LOAD AS SELECT	SYS_TEMP_OFD94CA_111484C	GROUP BY	200	3409
HASH	DW_CL.CLS_T_TRANSACTION	FULL	336000	3402
TABLE ACCESS	DW_DATA.nul	ORDERED	200	
SQL MODEL	SYS.SYS_TEMP_OFD94CA_111484C	FULL	200	3
VIEW	DW_DATA.nul	UNIQUE	200	4
TABLE ACCESS	SYS.SYS_TEMP_OFD94CA_111484C	FULL	200	3
HASH	DW_DATA.nul	UNIQUE	200	4
VIEW	SYS.SYS_TEMP_OFD94CA_111484C	FULL	200	3
TABLE ACCESS	DW_DATA.nul	UNIQUE	200	3
HASH	SYS.SYS_TEMP_OFD94CA_111484C	FULL	200	
VIEW	DW_DATA.nul	TABLE ACCESS	200	

Oracle SQL Developer

File Edit View Navigator Run Team Tools Window Help

Connections Oracle Connections VeraDB

Tables (Filtered)

Views Indexes Triggers Procedures Operators Queues Materialized Views Materialized View Logs Synonyms

Reports All Reports Data Dictionary Reports OLAP Reports TimeTen Reports User Defined Reports

SQL History

Welcome Page Lab11\_3.1.Task 03.sql

SQL Worksheet History 0.4569999 seconds

Worksheet Query Builder

```

21 alter session set current_schema=DW_DATA;
22 |
23 WITH salary_employees AS (
24   SELECT TRUNC(TIME_ID, 'YYYY') AS year,
25     TRUNC (TIME_ID, 'MM') AS month, 'MONTH' period
26 ,SUM (ROUND(employee_salary.project*(1+agency_VAT_percent/100),2)) as gross_salary_employee_dollar_amount_
27 ,SUM (employee_salary.project) as net_salary_employee_dollar_amount
28   FROM DW_CL.cls_t_transaction
29 GROUP BY TRUNC(TIME_ID, 'YYYY'), TRUNC (TIME_ID, 'MM')
30 |
31 select year, month, period, gross_salary_employee_dollar_amount, net_salary_employee_dollar_amount
32 from salary_employees
33 MODEL
34   DIMENSION BY ( year, month, period)
35   MEASURES ( gross_salary_employee_dollar_amount, net_salary_employee_dollar_amount)

```

Script Output × Explain Plan ×

SQL 0.457 seconds

OPERATION	OBJECT_NAME	OPTIONS	CARDINALITY	COST
SELECT STATEMENT			200	3412
TEMP TABLE TRANSFORMATION		(CURSOR DURATION MEMORY)		
LOAD AS SELECT	SYS_TEMP_OFD94CA_111484C	GROUP BY	200	3409
HASH	DW_CL.CLS_T_TRANSACTION	FULL	336000	3402
TABLE ACCESS	DW_DATA.nul	ORDERED	200	
SQL MODEL	SYS.SYS_TEMP_OFD94CA_111484C	FULL	200	3
VIEW	DW_DATA.nul	UNIQUE	200	4
TABLE ACCESS	SYS.SYS_TEMP_OFD94CA_111484C	FULL	200	3
HASH	DW_DATA.nul	UNIQUE	200	
VIEW	SYS.SYS_TEMP_OFD94CA_111484C	FULL	200	
TABLE ACCESS	DW_DATA.nul	UNIQUE	200	
HASH	SYS.SYS_TEMP_OFD94CA_111484C	FULL	200	
VIEW	DW_DATA.nul	TABLE ACCESS	200	

Welcome Page Lab11\_3.1.Task 03.sql

SQL Worksheet History 0.6330000 seconds

Worksheet Query Builder

```

22 SET AUTOTRACE ON;
23 WITH salary_employees AS (
24   SELECT TRUNC(TIME_ID, 'YYYY') AS year,
25     TRUNC (TIME_ID, 'MM') AS month, 'MONTH' period
26 ,SUM (ROUND(employee_salary.project*(1+agency_VAT_percent/100),2)) as gross_salary_employee_dollar_amount_
27 ,SUM (employee_salary.project) as net_salary_employee_dollar_amount
28   FROM DW_CL.cls_t_transaction
29 GROUP BY TRUNC(TIME_ID, 'YYYY'), TRUNC (TIME_ID, 'MM')
30 |
31 select year, month, period, gross_salary_employee_dollar_amount, net_salary_employee_dollar_amount
32 from salary_employees
33 MODEL
34   DIMENSION BY ( year, month, period)
35   MEASURES ( gross_salary_employee_dollar_amount, net_salary_employee_dollar_amount)

```

Script Output × Explain Plan ×

Task completed in 0.633 seconds

PLAN\_TABLE\_OUTPUT

Id	Operation	Name	E-Rows	QMem	IMem	Used-Mem
0	SELECT STATEMENT					
1	TEMP TABLE TRANSFORMATION					
2	LOAD AS SELECT (CURSOR DURATION MEMORY)	SYS_TEMP_OFD94A5_111484C	1024	1024		
3	HASH GROUP BY	DW_CL.CLS_T_TRANSACTION	200	696K	696K	
4	TABLE ACCESS FULL	CLS_T_TRANSACTION	336K			
5	SQL MODEL ORDERED		200	496K	496K	495K (0)
6	VIEW		200			
7	TABLE ACCESS FULL	SYS_TEMP_OFD94A5_111484C	200			
8	HASH UNIQUE		200	851K	851K	

PLAN\_TABLE\_OUTPUT

Id	Operation	Name	E-Rows	QMem	IMem	Used-Mem
9	VIEW		200			
10	TABLE ACCESS FULL	SYS_TEMP_OFD94A5_111484C	200			
11	HASH UNIQUE		200	851K	851K	
12	VIEW		200			
13	TABLE ACCESS FULL	SYS_TEMP_OFD94A5_111484C	200			

Welcome Page   VeraDB   Lab11\_3.1.Task 03.sql

SQL Worksheet History

Worksheet   Query Builder

```

22 set autotrace traceonly;
23 WITH salary_employees AS (
24   SELECT TRUNC(TIME_ID, 'YYYY') AS year,
25     TRUNC(TIME_ID, 'MM') AS month, 'MONTH' period
26   ,SUM (ROUND((employee_salary_project*(1+agency_VAT_percent)/100),2)) as gross_salary_employee_dollar_amount
27   ,SUM (employee_salary_project) as net_salary_employee_dollar_amount
28   FROM DW_CL.cls_t_transaction
29   GROUP BY TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM')

```

Script Output   |   Query Result   |   Task completed in 0.85 seconds

Statistics

```

23 CPU used by this session
23 CPU used when call started
23 DB time
5 Requests to/from client
6614 consistent gets
6614 consistent gets from cache
6614 consistent gets pin
6614 consistent gets pin (fastpath)
2 db block gets
2 db block gets from cache
2 db block gets from cache (fastpath)
1 enqueue releases
1 enqueue requests
1 messages sent
6 non-idle wait count
2 opened cursors cumulative
2 opened cursors current
1 pinned cursors current
6616 session logical reads
6 user calls

```

- Monthly salary data for employees for the year 2022 using Star Schema on the DW level.

Welcome Page   VeraDB   Lab11\_3.1.Task 03.sql

SQL Worksheet History

Worksheet   Query Builder

```

40
41 alter session set current_schema=DW_DATA;
42
43 select
44   TRUNC(TIME_ID, 'YYYY') AS YEAR,
45   TRUNC(TIME_ID, 'MM') AS MONTH,
46   SUM(gross_salary_employee_dollar_amount)/* as employee_salary_project_GROSS*/,
47   SUM(net_salary_employee_dollar_amount)/*as employee_salary_project_NET*/
48   from DW_DATA.FCT_BUSINESS
49   GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
50
51   HAVING
52   (TRUNC(TIME_ID, 'YYYY') IS NOT NULL
53   AND
54   TRUNC(TIME_ID, 'MM') IS NOT NULL)
55   order by TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM');

```

Script Output   |   Query Result   |   All Rows Fetched: 7 in 0.145 seconds

YEAR	MONTH	SUM(GROSS_SALARY_EMPLOYEE_DOLLAR_AMOUNT)/*AS EMPLOYEE_SALARY_PROJECT_GROSS*/	SUM(NET_SALARY_EMPLOYEE_DOLLAR_AMOUNT)/*AS EMPLOYEE_SALARY_PROJECT_NET*/
1 01-JAN-22	01-JAN-22	16740345.73	14286455
2 01-JAN-22	01-FEB-22	15139839.59	12919417
3 01-JAN-22	01-MAR-22	16782087.55	14324052
4 01-JAN-22	01-APR-22	16197508.94	13823913
5 01-JAN-22	01-MAY-22	16768528.37	14313747
6 01-JAN-22	01-JUN-22	16224818.16	13847563
7 01-JAN-22	01-JUL-22	10340195.31	8826010

Welcome Page   VeraDB   Lab11\_3.1.Task 03.sql

SQL Worksheet History

Worksheet   Query Builder

```

49 alter session set current_schema=DW_DATA;
50
51 select
52   TRUNC(TIME_ID, 'YYYY') AS YEAR,
53   TRUNC(TIME_ID, 'MM') AS MONTH,
54   SUM(gross_salary_employee_dollar_amount)/* as employee_salary_project_GROSS*/,
55   SUM(net_salary_employee_dollar_amount)/*as employee_salary_project_NET*/
56   from DW_DATA.FCT_BUSINESS
57   GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
58
59   HAVING
60   (TRUNC(TIME_ID, 'YYYY') IS NOT NULL
61   AND
62   TRUNC(TIME_ID, 'MM') IS NOT NULL)
63   order by TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM');

```

Script Output   |   Query Result   |   Explain Plan   |   SQL

0.257 seconds

OPERATION   OBJECT\_NAME   OPTIONS   PARTITION\_START   PARTITION\_STOP   PARTITION\_ID

```

SELECT STATEMENT
  SORT
    FILTER
      Filter Predicates
        AND
          TRUNC(INTERNAL_FUNCTION(TIME_ID,'fmvvyy')) IS NOT NULL
          TRUNC(INTERNAL_FUNCTION(TIME_ID,'fm'mm')) IS NOT NULL
      PARTITION RANGE
        HASH
          PARTITION HASH
            TABLE ACCESS
              DW_DATA.FCT_BUSINESS
                ALL
                GROUP BY
                FULL

```

Other XML  
[info]  
info type="nodeid/pflags"

Welcome Page Lab11\_3.1.Task 03.sql VeraDB

SQL Worksheet; History 0.257 seconds

```

Worksheet Query Builder
45 alter session set current_schema=DW_DATA;
46
47 select
48   TRUNC(TIME_ID, 'YYYY') AS YEAR,
49   TRUNC(TIME_ID, 'MM') AS MONTH,
50   SUM(gross_salary_employee_dollar_amount)/* as employee_salary_project_GROSS*/,
51   SUM(net_salary_employee_dollar_amount) /*as employee_salary_project_NET*/
52 from DW_DATA.FCT_BUSINESS
53 GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
54 HAVING
55   (TRUNC(TIME_ID, 'YYYY')) IS NOT NULL
56   AND
57   (TRUNC(TIME_ID, 'MM')) IS NOT NULL
58 order by TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM');

```

Script Output | Query Result | Explain Plan | 0.257 seconds

OPTIONS	PARTITION_START	PARTITION_STOP	PARTITION_ID	CARDINALITY	COST
ORDER BY				200	1398
				200	1398

GROUP BY	PARTITION_START	PARTITION_STOP	PARTITION_ID	CARDINALITY	COST
	1	4	3	200	1398
	1	4	5	336000	1384
	1	16	5	336000	1384

Welcome Page Lab11\_3.1.Task 03.sql VeraDB

SQL Worksheet; History 0.257 seconds

```

Worksheet Query Builder
45 alter session set current_schema=DW_DATA;
46
47 select
48   TRUNC(TIME_ID, 'YYYY') AS YEAR,
49   TRUNC(TIME_ID, 'MM') AS MONTH,
50   SUM(gross_salary_employee_dollar_amount)/* as employee_salary_project_GROSS*/,
51   SUM(net_salary_employee_dollar_amount) /*as employee_salary_project_NET*/
52 from DW_DATA.FCT_BUSINESS
53 GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
54 HAVING
55   (TRUNC(TIME_ID, 'YYYY')) IS NOT NULL
56   AND
57   (TRUNC(TIME_ID, 'MM')) IS NOT NULL
58 order by TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM');

```

Script Output | Query Result | Explain Plan | 0.257 seconds

OPTIONS	PARTITION_START	PARTITION_STOP	PARTITION_ID	CARDINALITY	COST
ORDER BY				200	1398
				200	1398

GROUP BY	PARTITION_START	PARTITION_STOP	PARTITION_ID	CARDINALITY	COST
	1	4	3	200	1398
	1	4	5	200	1398

Welcome Page Lab11\_3.1.Task 03.sql VeraDB

SQL Worksheet; History

```

Worksheet Query Builder
40
41 /*U02_Lab11 Monthly salary data for employees for the year 2022 using Star Schema on the DW level.*/
42
43 alter session set current_schema=DW_DATA;
44 set autotrace traceonly;
45
46 select
47   TRUNC(TIME_ID, 'YYYY') AS YEAR,
48   TRUNC(TIME_ID, 'MM') AS MONTH,
49   SUM(gross_salary_employee_dollar_amount)/* as employee_salary_project_GROSS*/,
50   SUM(net_salary_employee_dollar_amount) /*as employee_salary_project_NET*/
51 from DW_DATA.FCT_BUSINESS
52 GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
53 HAVING
54   (TRUNC(TIME_ID, 'YYYY')) IS NOT NULL
55   AND
56   (TRUNC(TIME_ID, 'MM')) IS NOT NULL
57 order by TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM');

```

Script Output | Query Result | Task completed in 1.229 seconds

Id	Operation	Name	E-Rows	QMem	lMem	Used-Mem
0	SELECT STATEMENT		1	1	1	1
1	SORT ORDER BY		200	2048	2048	2048 (0)
2	FILTER		1	1	1	1
3	PARTITION RANGE ALL		200	1	1	1
4	HASH GROUP BY		200	688K	688K	1
5	PARTITION HASH ALL		336K	1	1	1

PLAN\_TABLE\_OUTPUT

Id	Table Access Full  FCT_BUSINESS	E-Rows	QMem	lMem	Used-Mem
6	TABLE ACCESS FULL  FCT_BUSINESS	336K	1	1	1

```

49 alter session set current_schema=DW_DATA;
50 set autotrace traceonly;
51 select
52   TRUNC(TIME_ID, 'YYYY') AS YEAR,
53   TRUNC(TIME_ID, 'MM') AS MONTH,
54   SUM(gross_salary_employee_dollar_amount)/* as employee_salary_project_GROSS*/,
55   SUM(net_salary_employee_dollar_amount) /*as employee_salary_project_NET*/
56 from DW_DATA.FCT_BUSINESS
57 GROUP BY CUBE (TRUNC(TIME_ID, 'YYYY'), TRUNC(TIME_ID, 'MM'))
58 HAVING
59   (TRUNC(TIME_ID, 'YYYY') IS NOT NULL
60   AND

```

Script Output | Query Result | Task completed in 1.229 seconds

**Statistics**

```

-----  

8 CPU used by this session  

8 CPU used when call started  

7 DB time  

5 Requests to/from client  

1274 consistent gets  

1274 consistent gets from cache  

1274 consistent gets pin  

1274 consistent gets pin (fastpath)  

6 non-idle wait count  

2 opened cursors cumulative  

2 opened cursors current  

1 pinned cursors current  

1274 session logical reads  

6 user calls

```

Summarize table:

Nº	Source Type	Explain Plan - Statistics			Time, Sec.
		CARDINALITY	COST	CONSISTENT GETS	
1	Advancing Grouping	200	3174	6091	0.205 sec
2	Model Clause	200	3412	6614	0.237 sec
3	Star Schema	200	1398	1274	0.145 sec

Summary: As we can see, with the same number of query strings returned, by examining the TIME, COST and CONSISTENT GETS we can conclude that a query that works with Star Schema works faster and costs less.