TASK5 REPORT

1 DATA SOURCING TASK

1. CREATE EXTERNAL TABLES FOR GEO HIERARCHY.

Step 1: Create users

	USERNAME	USER_ID	CREATED	COMMON	ORACLE_MAINTAINED	INHERITED	DEFAULT_COLLATION	IMPLICIT	ALL_SHARD
1	SOURCE_ABSTRACTION	110	22.02.22	YES	Y	NO	USING_NLS_COMP	NO	NO
2	SOURCE_SYSTEM_1	106	21.02.22	YES	Y	NO	USING_NLS_COMP	NO	NO
3	SOURCE_SYSTEM_2	107	21.02.22	YES	Y	NO	USING_NLS_COMP	NO	NO
4	SA_SOURCE_SYSTEM_1	108	21.02.22	YES	Y	NO	USING_NLS_COMP	NO	NO
5	SA_SOURCE_SYSTEM_2	109	21.02.22	YES	Y	NO	USING_NLS_COMP	NO	NO

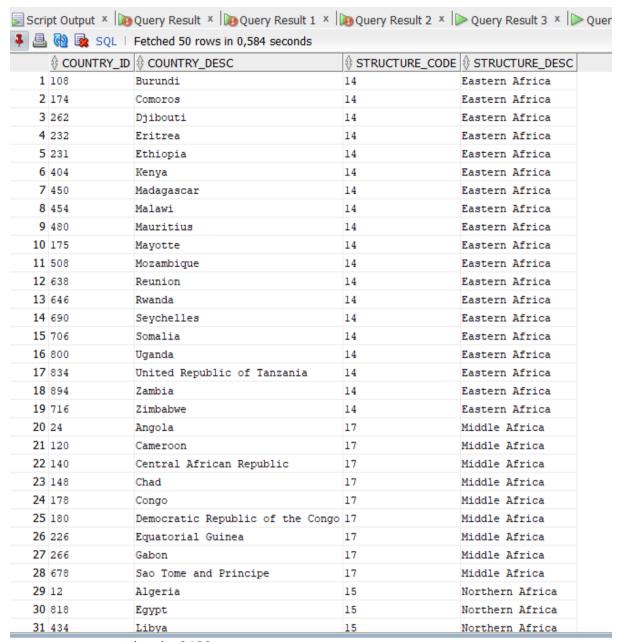# Step 2: Create directories and grant privileges to directories for users

```
-- check directories
SELECT * FROM ALL_DIRECTORIES WHERE DIRECTORY_NAME LIKE 'SOURCE_%';
```

Script Output × | Query Result × | Query Result 1 ×

SQL | All Rows Fetched: 3 in 0,008 seconds

	OWNER	DIRECTORY_NAME	DIRECTORY_PATH	ORIGIN_CON_ID
1	SYS	SOURCE_1	/opt/oracle/oradata/Sourse_1_data	1
2	SYS	SOURCE_2	/opt/oracle/oradata/Sourse_2_data	1
3	SYS	SOURCE_GEO	/opt/oracle/oradata/Geo_data	1

12	SA_SOURCE_SYSTEM_1	SOURCE_1	READ
13	SA_SOURCE_SYSTEM_1	SOURCE_1	WRITE
14	SA_SOURCE_SYSTEM_2	SOURCE_1	READ
15	SA_SOURCE_SYSTEM_2	SOURCE_2	READ
16	SA_SOURCE_SYSTEM_2	SOURCE_1	WRITE
17	SA_SOURCE_SYSTEM_2	SOURCE_2	WRITE
18	SOURCE_ABSTRACTION	SOURCE_GEO	READ
19	SOURCE_ABSTRACTION	SOURCE_GEO	WRITE

Step 3: Create external tables for geo
- *geo_structure_iso3166.csv*

SQL | All Rows Fetched: 29 in 0,142 seconds

	CHILD_CODE	PARENT_CODE	STRUCTURE_DESC	STRUCTURE_LEVEL
1	1	(null)	World	World
2	2	1	Africa	Continents
3	14	2	Eastern Africa	Regions
4	17	2	Middle Africa	Regions
5	15	2	Northern Africa	Regions
6	18	2	Southern Africa	Regions
7	11	2	Western Africa	Regions
8	419	1	Latin America and the Caribbean	Continents
9	29	419	Caribbean	Regions
10	13	419	Central America	Regions
11	5	419	South America	Regions
12	21	1	Northern America	Continents
13	21	21	Northern America	Regions
14	142	1	Asia	Continents
15	143	142	Central Asia	Regions
16	30	142	Eastern Asia	Regions
17	34	142	Southern Asia	Regions
18	35	142	South-Eastern Asia	Regions
19	145	142	Western Asia	Regions
20	150	1	Europe	Continents
21	151	150	Eastern Europe	Regions
22	154	150	Northern Europe	Regions
23	39	150	Southern Europe	Regions
24	155	150	Western Europe	Regions
25	9	1	Oceania	Continents
26	53	9	Australia and New Zealand	Regions
27	54	9	Melanesia	Regions
28	57	9	Micronesia	Regions
29	61	9	Polynesia	Regions

- *geo_countries_structure_iso3166.csv*

SQL | Fetched 50 rows in 0,584 seconds

	COUNTRY_ID	COUNTRY_DESC	STRUCTURE_CODE	STRUCTURE_DESC
1	108	Burundi	14	Eastern Africa
2	174	Comoros	14	Eastern Africa
3	262	Djibouti	14	Eastern Africa
4	232	Eritrea	14	Eastern Africa
5	231	Ethiopia	14	Eastern Africa
6	404	Kenya	14	Eastern Africa
7	450	Madagascar	14	Eastern Africa
8	454	Malawi	14	Eastern Africa
9	480	Mauritius	14	Eastern Africa
10	175	Mayotte	14	Eastern Africa
11	508	Mozambique	14	Eastern Africa
12	638	Reunion	14	Eastern Africa
13	646	Rwanda	14	Eastern Africa
14	690	Seychelles	14	Eastern Africa
15	706	Somalia	14	Eastern Africa
16	800	Uganda	14	Eastern Africa
17	834	United Republic of Tanzania	14	Eastern Africa
18	894	Zambia	14	Eastern Africa
19	716	Zimbabwe	14	Eastern Africa
20	24	Angola	17	Middle Africa
21	120	Cameroon	17	Middle Africa
22	140	Central African Republic	17	Middle Africa
23	148	Chad	17	Middle Africa
24	178	Congo	17	Middle Africa
25	180	Democratic Republic of the Congo	17	Middle Africa
26	226	Equatorial Guinea	17	Middle Africa
27	266	Gabon	17	Middle Africa
28	678	Sao Tome and Principe	17	Middle Africa
29	12	Algeria	15	Northern Africa
30	818	Egypt	15	Northern Africa
31	434	Libya	15	Northern Africa

- *geo_countries_iso3166.csv*

SQL | Fetched 50 rows in 0,228 seconds

	COUNTRY_ID	COUNTRY_DESC	COUNTRY_CODE
1	4	Afghanistan	AFG
2	8	Albania	ALB
3	12	Algeria	DZA
4	16	American Samoa	ASM
5	20	Andorra	AND
6	24	Angola	AGO
7	660	Anguilla	AIA
8	28	Antigua and Barbuda	ATG
9	32	Argentina	ARG
10	51	Armenia	ARM
11	533	Aruba	ABW
12	36	Australia	AUS
13	40	Austria	AUT
14	31	Azerbaijan	AZE
15	44	Bahamas	BHS
16	48	Bahrain	BHR
17	50	Bangladesh	BGD
18	52	Barbados	BRB
19	112	Belarus	BLR
20	56	Belgium	BEL
21	84	Belize	BLZ
22	204	Benin	BEN
23	60	Bermuda	BMU
24	64	Bhutan	BTN
25	68	Bolivia (Plurinational State of)	BOL
26	535	Bonaire, Saint Eustatius and Saba	BES
27	70	Bosnia and Herzegovina	BIH
28	72	Botswana	BWA
29	76	Brazil	BRA
30	92	British Virgin Islands	VGB
31	96	Brunei Darussalam	BRN

2. CREATE EXTERNAL TABLES FOR CHOSEN BUSINESS DATA SOURCES.

SOURCE 1

CHANNEL TABLE

	CHANNEL_ID	CHANNEL_DESC	CHANNEL_CLASS	CHANNEL_CLASS_ID
1	3	Catalog	Indirect	2
2	4	Internet	Indirect	2
3	2	Tele Sales	Direct	1
4	1	Direct Sales	Direct	1

COUNTRIES

	COUNTRY_ID	COUNTRY_ISO_CODE	COUNTRY_NAME	COUNTRY_SUBREGION	COUNTRY_SUBREGION_ID	COUNTRY_REGION	COUNTRY_REGION_ID	COUNTRY_TOTAL	COUNTRY_TOTAL_ID	COUNTRY_NAME_HIST
1	22	US	United States of America	Northern America	52797	Americas	52801	World total	52806	(null)
2	8	DE	Germany	Western Europe	52799	Europe	52803	World total	52806	(null)
3	21	GB	United Kingdom	Western Europe	52799	Europe	52803	World total	52806	(null)
4	16	NL	The Netherlands	Western Europe	52799	Europe	52803	World total	52806	(null)
5	12	IE	Ireland	Western Europe	52799	Europe	52803	World total	52806	(null)
6	9	DK	Denmark	Western Europe	52799	Europe	52803	World total	52806	(null)
7	11	FR	France	Western Europe	52799	Europe	52803	World total	52806	(null)
8	10	ES	Spain	Western Europe	52799	Europe	52803	World total	52806	(null)
9	20	TR	Turkey	Western Europe	52799	Europe	52803	World total	52806	(null)
10	18	PL	Poland	Eastern Europe	52795	Europe	52803	World total	52806	(null)
11	7	BR	Brazil	Southern America	52798	Americas	52801	World total	52806	(null)
12	5	AR	Argentina	Southern America	52798	Americas	52801	World total	52806	(null)
13	15	MY	Malaysia	Asia	52793	Asia	52802	World total	52806	(null)

CUSTOMERS

	CUSTOMER_ID	CUSTOMER_FIRST_NAME	CUSTOMER_LAST_NAME	CUS...	CUSTOME...	CUSTOMER_ADDRESS	CUSTOMER_COUNTRY_ID	CUSTOMER_ISO_CODE	CUSTOMER_COUNTRY_NAME	CUSTOMER_PHONE	CUSTOMER_EMAIL
1	1	Abigail	Ruddy	M	1976	Ede, 27 North Sagadahoc Boulevard	2	IT	Italy	519-236-6123	Ruddy@company.com
2	3	Abigail	Ruddy	M	1942	Schimmert, 47 Toa Alta Road	2	IT	Italy	288-613-9676	Ruddy@company.com
3	4	Abigail	Ruddy	M	1977	Scheveningen, 47 South Kanabec Road	2	IT	Italy	222-269-1259	Ruddy@company.com
4	5	Abigail	Ruddy	M	1949	Joinville, 57 North 3rd Drive	7	BR	Brazil	675-133-2226	Ruddy@company.com
5	6	Abigail	Ruddy	M	1950	Nagoya, 67 East Mcintosh Avenue	14	JP	Japan	183-207-2933	Ruddy@company.com
6	7	Abigail	Ruddy	M	1946	Santos, 77 Bradford Avenue	7	BR	Brazil	129-379-7148	Ruddy@company.com
7	8	Abigail	Ruddy	M	1978	Yokohama, 77 North Packard Avenue	14	JP	Japan	689-236-7611	Ruddy@company.com
8	9	Abigail	Ruddy	M	1949	Haarlem, 87 West Coshocton Avenue	2	IT	Italy	208-194-6025	Ruddy@company.com
9	10	Abigail	Ruddy	M	1951	Bolton, 97 Sagadahoc Avenue	21	GB	United Kingdom	391-613-8000	Ruddy@company.com
10	11	Abigail	Ruddy	M	1948	Lelystad, 97 South Geneva Avenue	2	IT	Italy	587-269-1680	Ruddy@company.com
11	12	Abner	Everett	M	1954	Wolverhampton, 107 Covington Avenue	21	GB	United Kingdom	258-692-7934	Everett@company.com
12	13	Abner	Everett	M	1975	Murnau, 107 North Saguache Avenue	8	DE	Germany	167-248-1619	Everett@company.com
13	14	Abner	Everett	M	1957	Los Angeles, 117 West Gloucester Avenue	22	US	United States of America	620-711-8237	Everett@company.com

EMPLOYEES

	EMPLOYEE_ID	EMPLOYEE_NAME	EMPLOYEE_LAST_NAME	EMPLOYEE_BIRTHDAY	EMPLOYEE_POSITION	EMPLOYEE_PHONE	EMPLOYEE_EMAIL	EMPLOYEE_ADDRESS	EMPLOYEE_COUNTRY
1	1	Chuck	Owens Chuck	1961-12-13 04:17:28Z	manager	6-618-641-4682	Chuck_Owens8529402528kideod.biz	Veldhoven, 27 South Marinette Boulevard	Spain
2	2	Bryon	Morrow Bryon	1960-07-16 15:55:12Z	seller	6-013-861-1165	Bryon_Morrow1383217053@elnee.tech	Pune, 67 West Foster City Avenue	Spain
3	3	Harvey	Ashwell Harvey	1990-11-17 13:36:47Z	cashier	0-381-406-8284	Harvey_Ashwell2075201909@yahoo.com	Diss, 67 Tallapoosa Avenue	New Zealand
4	4	Mike	Ross Mike	1976-05-02 13:47:34Z	seller	2-417-013-3273	Mike_Ross416003147@ovock.tech	Nieuwegein, 77 South Isabella Avenue	New Zealand
5	5	Barney	Lee Barney	2007-08-06 17:16:36Z	cashier	3-271-744-3725	Barney_Lee1306118385@aveldo.biz	Auckland, 87 West Yabucoa Avenue	Denmark
6	6	Kieth	Veale Kieth	2007-10-10 07:38:12Z	manager	5-362-342-4567	Kieth_Veale1222603017@gembat.biz	Bolsward, 107 South Marinette Avenue	Denmark
7	7	Jacob	Raven Jacob	1971-08-20 13:57:19Z	seller	3-827-205-5320	Jacob_Raven1803744217@famism.biz	Den Haag The Hague, 27 East Tallapoosa Boulevard	United Kingdom
8	8	Marjorie	Reyes Marjorie	1986-09-19 07:21:36Z	cashier	1-121-403-3104	Marjorie_Reyes2048901649@nickia.com	Edam, 37 Isabella Street	United Kingdom
9	9	Hank	Cann Hank	2010-01-23 17:39:35Z	manager	1-043-505-6717	Hank_Cann736208176@joinisa.com	Alphen aan den Rijn, 37 North Yabucoa Street	United Kingdom
10	10	Lucas	Lee Lucas	1978-03-01 09:16:52Z	seller	5-512-834-6438	Lucas_Lee2039640108@ovock.tech	Londrina, 57 South Ontonagon Drive	United States of America
11	11	Cecilia	Wise Cecilia	2005-06-24 12:50:56Z	cashier	4-823-366-5704	Cecilia_Wise863651510@ubusive.com	Adelaide, 87 Foster City Avenue	United States of America
12	12	Vera	Ebden Vera	1996-08-17 11:18:25Z	seller	0-510-606-2634	Vera_Ebden575590006@acrit.org	Soest, 87 North Tallapoosa Avenue	United States of America
13	13	Clint	Owen Clint	1986-10-25 21:51:18Z	cashier	2-536-705-7020	Clint_Owen1286549936@irrepay.com	Hiseville, 107 Yadkin Avenue	United States of America

PRODUCTS

	PRODUCT_ID	PRODUCT_NAME	BRAND_ID	BRAND	PRODUCT_TYPE_ID	PRODUCT_TYPE	UNIT_COST	UNIT_PRICE
1	1	Handbag Holiday Cutile Oil	330	Butter London	93	Treatment	1576.50	1970.62
2	2	LIPPY	330	Butter London	83	Lipgloss	443.62	554.52
3	3	Hardwear P.D. Quick Top Coat	330	Butter London	12	Top Coat	572.97	716.21
4	4	Horse Power Nail Fertilizer	330	Butter London	93	Treatment	1398.29	1747.86
5	5	Kitten Heels Powder Finish Foot Creme	330	Butter London	18	Cream	474.72	593.40
6	6	Matte Finish Top Coat	330	Butter London	12	Top Coat	628.99	786.24
7	7	Melt Away Cuticle Eliminator	330	Butter London	93	Treatment	1771.22	2214.02
8	8	Nail File	330	Butter London	5	Nail File	497.58	621.98
9	9	Nail Foundation Flawless Base Coat	330	Butter London	17	Base Coat	641.47	801.84
10	10	Nail Lacquer	330	Butter London	29	Nail Color	1128.20	1410.25
11	11	Powder Room	330	Butter London	61	Polish Remover	181.94	227.42
12	12	Rock Off Glycolic Callus Peel	330	Butter London	100	Exfoliators & Scrubs	1659.24	2074.05
13	13	Royal Punch Remover	330	Butter London	61	Polish Remover	1517.20	1896.50

PROMOTIONS

	PROMO_ID	PROMO_NAME	PROMO_CATEGORY	PROMO_CATEGORY_ID	PROMO_COST	PROMO_BEGIN_DATE	PROMO_END_DATE
1	5	everyday low price	ad news	3	0.00	2020-06-01 00:00:00.000	2021-06-01 00:00:00.000
2	1	NO PROMOTION #	NO PROMOTION	1	0.00	1999-01-01 00:00:00.000	1999-01-01 00:00:00.000
3	33	internet promotion #29-64	internet	5	9800.00	2021-03-31 00:00:00.000	2021-06-30 00:00:00.000
4	2	post promotion #20-33	post	8	77200.00	2020-09-15 00:00:00.000	2020-11-15 00:00:00.000
5	30	TV promotion #12-61	TV	2	91600.00	2021-04-28 00:00:00.000	2021-07-28 00:00:00.000

STORES

	STORE_ID	STORE_POSTAL_CODE	STORE_CITY	STORE_CITY_ID	STORE_STATE	STORE_STATE_ID	STORE_COUNTRY	STORE_COUNTRY_ID	STORE_PHONE	STORE_STREET_ADDRESS
1	15	SW1W 8NE	London	10	ENG	10	United Kingdom	21	2072590747	53-55 Pimlico Road
2	25	122055118	Albany	12	NY	11	United States of America	22	518-489-1112	1440 Central Ave
3	6	46002	Valencia	3	AN	3	Spain	10	96.309.29.61	San Vicente, 44
4	35	12221	Riyadh	19	1	16	Saudi Arabia	19	96615513116	Northern Ring with Rd Salim Ibn Maqil
5	4	8002	Barcelona	2	CT	2	Spain	10	93.304.35.53	Rambla Canaletes 109
6	43	2194	Johannesburg	24	GT	20	South Africa	23	27873500159	Cnr Tyrwhitt and Cradock Avenue, Rosebank
7	18	N1 0PN	London	10	ENG	10	United Kingdom	21	2073540179	30 Upper St, Islington, O2 Centre
8	38	C1430EZT	Buenos Aires	20	C	17	Argentina	5	5777-9501	Melian Avenida 4602
9	31	282628423	Charlotte	16	NC	14	United States of America	22	7045471787	9335 North Tryon Street, 104, Northlake Mall
10	20	WC2R 0HS	London	10	ENG	10	United Kingdom	21	2078365166	Unit2 Burleigh House, 355-359 The Strand
11	1	28005	Madrid	1	MD	1	Spain	10	91.275.21.85	Plaza Canovas del Castillo 5
12	5	46002	Valencia	3	AN	3	Spain	10	96.309.20.11	Gran via Marques del Turia Ave, 49
13	8	5011	Christchurch	5	S	5	New Zealand	17	33434920	Westfield shopping centre, Riccarton Rd, 1022 : مبنى

SALES

	PRODUCT_ID	CUSTOMER_ID	CHANNEL_ID	PROMO_ID	EMPLOYEE_ID	STORE_ID	QUANTITY_SOLD	TIME_ID
1	7560	31855	3	1	39	17	1.00	2021-04-09
2	5727	39662	4	1	40	18	1.00	2021-05-09
3	3446	13429	2	1	42	20	1.00	2021-01-09
4	4711	1453	3	1	44	22	1.00	2021-01-09
5	3601	37704	3	1	45	23	1.00	2021-01-09
6	2050	1789	3	1	47	25	1.00	2021-01-09
7	3462	23991	3	1	48	26	1.00	2021-01-09
8	10086	31381	3	1	52	30	1.00	2021-01-09
9	4065	31240	3	1	64	42	1.00	2021-02-09
10	8992	18294	4	1	65	43	1.00	2021-02-09
11	6671	549	3	1	67	1	1.00	2021-02-09
12	6207	8281	2	1	72	6	1.00	2021-02-09
13	10320	956	3	1	73	7	1.00	2021-02-09

CHANNEL TABLE

	CHANNEL_ID	CHANNEL_DESC	CHANNEL_CLASS	CHANNEL_CLASS_ID
1	3	Catalog	Indirect	2
2	4	Internet	Indirect	2
3	2	Tele Sales	Direct	1
4	1	Direct Sales	Direct	1

COUNTRIES

	COUNTRY_ID	COUNTRY_ISO_CODE	COUNTRY_NAME	COUNTRY_SUBREGION	COUNTRY_SUBREGION_ID	COUNTRY_REGION	COUNTRY_REGION_ID	COUNTRY_TOTAL	COUNTRY_TOTAL_ID	COUNTRY_NAME_HIST
1	22	US	United States of America	Northern America	52797	Americas	52801	World total	52806	(null)
2	8	DE	Germany	Western Europe	52799	Europe	52803	World total	52806	(null)
3	21	GB	United Kingdom	Western Europe	52799	Europe	52803	World total	52806	(null)
4	16	NL	The Netherlands	Western Europe	52799	Europe	52803	World total	52806	(null)
5	12	IE	Ireland	Western Europe	52799	Europe	52803	World total	52806	(null)
6	9	DK	Denmark	Western Europe	52799	Europe	52803	World total	52806	(null)
7	11	FR	France	Western Europe	52799	Europe	52803	World total	52806	(null)

CUSTOMERS

	CUSTOMER_ID	CUSTOMER_COMPANY_NAME	CUSTOMER_COMPANY_NUMBER	CUSTOMER_ADDRESS	CUSTOMER_COUNTRY_ID	CUSTOMER_ISO_CODE	CUSTOMER_COUNTRY_NAME	CUSTOMER_PHONE	CUSTOMER_EMAIL
1	1164	AECOM	266-12-4802	Bryant, 47 East Pierce Road	22	US	United States of America	278-184-9485	Welk@company.com
2	653	Carrefour	853-71-2262	Molino, 57 East Butterfly Drive	22	US	United States of America	580-738-6712	Lin@company.com
3	3731	Biolife Grup	503-78-1713	Buckley, 67 West Moca Avenue	22	US	United States of America	279-695-6085	Carbery@company.com
4	5109	Boeing	588-33-8704	Sugarloaf Key, 107 East Donna Lake Avenue	22	US	United States of America	540-574-7561	Roy@company.com
5	5483	Areon Impex	837-35-3332	North Hills, 27 South Ozaukee Boulevard	22	US	United States of America	248-303-6668	Prabu@company.com
6	1712	Amazon.com	236-51-6113	Malaga, 47 South Idaho Road	10	ES	Spain		593-209-4524	Ivey@company.com
7	3332	BuzzFeed	466-01-4362	Montara, 27 East Saratoga Boulevard	22	US	United States of America	694-444-1052	Moy@company.com
8	5227	Boeing	380-68-3251	Wadsworth, 67 North Athens Avenue	22	US	United States of America	541-781-6716	Spivak@company.com

EMPLOYEES

	EMPLOYEE_ID	EMPLOYEE_NAME	EMPLOYEE_LAST_NAME	EMPLOYEE_BIRTHDAY	EMPLOYEE_POSITION	EMPLOYEE_PHONE	EMPLOYEE_EMAIL	EMPLOYEE_ADDRESS	EMPLOYEE_COINTRY
1	39	Noah	Eastwood Noah	2002-05-21 17:52:08Z	manager	0-068-186-5614	Noah_Eastwood1682896119@nimogy.biz	Dun Laoghaire, 47 South Garfield Road	United States of America
2	48	Nicole	Nicholls Nicole	1964-09-09 21:08:52Z	cashier	4-853-084-5747	Nicole_Nicholls1613216810@gompie.com	Enschede, 107 Breckinridge Avenue	Argentina
3	34	Anne	Walter Anne	1988-11-22 18:10:54Z	manager	0-876-676-3636	Anne_Walter2146573068@sheye.org	Kerkrade, 7 South Rusk Circle	United Kingdom
4	52	Valerie	Page Valerie	1964-06-15 17:03:08Z	seller	6-060-250-3532	Valerie_Page 1971521838@bretoux.com	Schimmert, 37 North Breckinridge Street	Spain
5	71	Michael	Davies Michael	1985-04-02 02:30:34Z	cashier	3-251-651-1164	Michael_Davies559374531@guentu.biz	Schwaebisch Gmuend, 37 South Albemarle Street	Argentina
6	32	Emma	Snell Emma	2008-08-18 17:11:51Z	seller	7-333-141-2502	Emma_Snell11410930865@gembat.biz	Yokohama, 57 South Owen Drive	United Kingdom
7	27	Noah	Boyle Noah	1967-01-09 13:16:25Z	seller	1-310-675-5064	Noah_Boyle872967336@bulaffy.com	Schoonoord, 107 York Avenue	Spain

PRODUCTS

	PRODUCT_ID	PRODUCT_NAME	BRAND_ID	BRAND	PRODUCT_TYPE_ID	PRODUCT_TYPE	UNIT_COST	UNIT_PRICE
1	10631	Petit Pro Palette	242	Viseart	44	Eye Palette	142.39	177.99
2	612	Purely Nourishing Moisturizer: Combination Skin	140	bareMinerals	28	Lotion	1036.83	1296.04
3	5884	Nail Paint	62	Barry M	29	Nail Color	857.62	1072.03
4	380	Foundation Small 104 Brush	77	Make Up For Ever	68	Face	391.98	489.97
5	9956	Ultimate Brows Shade & Shaper Pencil	78	Ulta	97	Pencil	1676.47	2095.59
6	833	Lavender Sage Foot Butter	379	Nubar	18	Cream	878.17	1097.71
7	6457	Lip Brush L	357	Suqqu	57	Lip	1004.42	1255.52
8	4821	Retouch Loose Powder	51	Temptu	31	Loose Powder	1056.02	1320.02
9	5133	Zap & Hide	234	Jane Iredale	94	Concealer	412.02	515.02
10	8905	Make-up Melt Cleanser	146	Rouge Bunny Rouge	37	Makeup Remover	1807.73	2259.66

PROMOTIONS

	PROMO_ID	PROMO_NAME	PROMO_CATEGORY	PROMO_CATEGORY_ID	PROMO_COST	PROMO_BEGIN_DATE	PROMO_END_DATE
1	33	internet promotion #29-64	internet	5	9800.00	2021-03-31 00:00:00.000	2021-06-30 00:00:00.000
2	5	everyday low price	ad news	3	0.00	2020-06-01 00:00:00.000	2021-06-01 00:00:00.000
3	2	post promotion #20-33	post	8	77200.00	2020-09-15 00:00:00.000	2020-11-15 00:00:00.000
4	30	TV promotion #12-61	TV	2	91600.00	2021-04-28 00:00:00.000	2021-07-28 00:00:00.000
5	1	NO PROMOTION #	NO PROMOTION	1	0.00	1999-01-01 00:00:00.000	1999-01-01 00:00:00.000

STORES

	STORE_ID	STORE_POSTAL_CODE	STORE_CITY	STORE_CITY_ID	STORE_STATE	STORE_STATE_ID	STORE_COUNTRY	STORE_COUNTRY_ID	STORE_PHONE	STORE_STREET_ADDRESS
1	15	SW1W 8NE	London	10	ENG	10	United Kingdom	21	2072590747	53-55 Pimlico Road
2	25	122055118	Albany	12	NY	11	United States of America	22	518-489-1112	1440 Central Ave
3	6	46002	Valencia	3	AN	3	Spain	10	96.309.29.61	San Vicente, 44
4	35	12221	Riyadh	19	1	16	Saudi Arabia	19	96615513116	Northern Ring with Rd Salim Ibn Maqil
5	4	8002	Barcelona	2	CT	2	Spain	10	93.304.35.53	Rambla Canaletes 109
6	43	2194	Johannesburg	24	GT	20	South Africa	23	27873500159	Cnr Tyrwhitt and Cradock Avenue, Rosebank

SALES

	PRODUCT_ID	CUSTOMER_ID	CHANNEL_ID	PROMO_ID	EMPLOYEE_ID	STORE_ID	QUANTITY_SOLD	TIME_ID
1	7563	2396	3	30	12	30	1.00	2020-01-02
2	6235	1433	3	30	43	17	1.00	2020-02-02
3	147	486	3	5	44	18	1.00	2020-01-02
4	3882	5306	3	30	45	19	1.00	2020-07-02
5	3660	359	3	30	58	32	1.00	2020-07-02
6	10117	3957	3	30	60	34	1.00	2020-01-02
7	2154	111	3	30	62	36	1.00	2020-01-02
8	3175	1981	3	30	66	40	1.00	2020-07-02
9	7405	3163	3	30	71	1	1.00	2020-01-02
10	1515	4652	3	30	77	7	1.00	2020-07-02