TASK 3 DATA ANALYST

➢ SELECT * from customers;

customer_id	first_name	last_name	birth_date	phone	address	city	state	points
1	Babara	MacCaffrey	1986-03-28	781-932-9754	0 Sage Terrace	Waltham	MA	2273
2	Ines	Brushfield	1986-04-13	804-427-9456	14187 Commercial Trail	Hampton	VA	947
3	Freddi	Boagey	1985-02-07	719-724-7869	251 Springs Junction	Colorado Springs	CO	2967
4	Ambur	Roseburgh	1974-04-14	407-231-8017	30 Arapahoe Terrace	Orlando	FL	457
5	Clemmie	Betchley	1973-11-07	NULL	5 Spohn Circle	Arlington	TX	3675
6	Elka	Twiddell	1991-09-04	312-480-8498	7 Manley Drive	Chicago	IL	3073
7	Ilene	Dowson	1964-08-30	615-641-4759	50 Lillian Crossing	Nashville	TN	1672
8	Thacher	Naseby	1993-07-17	941-527-3977	538 Mosinee Center	Sarasota	FL	205
9	Romola	Rumgay	1992-05-23	559-181-3744	3520 Ohio Trail	Visalia	CA	1486
10	Levy	Mynett	1969-10-13	404-246-3370	68 Lawn Avenue	Atlanta	GA	796
11	jl	ljs	NULL	NULL	sddsfs	dadf	kj	789
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

➢ SELECT * from customers where customer_id=1;

customer_id	first_name	last_name	birth_date	phone	address	city	state	points
1	Babara	MacCaffrey	1986-03-28	781-932-9754	0 Sage Terrace	Waltham	MA	2273
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

➢ SELECT last_name, first_name, points,(points + 10) * 100 AS discountfactor FROM customers;

last_name	first_name	points	discountfactor
MacCaffrey	Babara	2273	228300
Brushfield	Ines	947	95700
Boagey	Freddi	2967	297700
Roseburgh	Ambur	457	46700
Betchley	Clemmie	3675	368500
Twiddell	Elka	3073	308300
Dowson	Ilene	1672	168200
Naseby	Thacher	205	21500
Rumgay	Romola	1486	149600
Mynett	Levy	796	80600
ljs	jl	789	79900

➢ SELECT * FROM Customers WHERE birth_date > 1990-01-01 OR points > 1000 AND state = 'VA';

customer_id	first_name	last_name	birth_date	phone	address	city	state	points
1	Babara	MacCaffrey	1986-03-28	781-932-9754	0 Sage Terrace	Waltham	MA	2273
2	Ines	Brushfield	1986-04-13	804-427-9456	14187 Commercial Trail	Hampton	VA	947
3	Freddi	Boagey	1985-02-07	719-724-7869	251 Springs Junction	Colorado Springs	CO	2967
4	Ambur	Roseburgh	1974-04-14	407-231-8017	30 Arapahoe Terrace	Orlando	FL	457
5	Clemmie	Betchley	1973-11-07	NULL	5 Spohn Circle	Arlington	TX	3675
6	Elka	Twiddell	1991-09-04	312-480-8498	7 Manley Drive	Chicago	IL	3073
7	Ilene	Dowson	1964-08-30	615-641-4759	50 Lillian Crossing	Nashville	TN	1672
8	Thacher	Naseby	1993-07-17	941-527-3977	538 Mosinee Center	Sarasota	FL	205
9	Romola	Rumgay	1992-05-23	559-181-3744	3520 Ohio Trail	Visalia	CA	1486
10	Levy	Mynett	1969-10-13	404-246-3370	68 Lawn Avenue	Atlanta	GA	796
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

- ➢ SELECT * FROM products WHERE quantity_in_stock IN (49, 38, 72);

product_id	name	quantity_in_stock	unit_price
2	Pork - Bacon,back Peameal	49	4.65
3	Lettuce - Romaine, Heart	38	3.35
NULL	NULL	NULL	NULL

- ➢ SELECT birth_date, first_name, last_name, 10 As points from customers order by first_name;

birth_date	first_name	last_name	points
1974-04-14	Ambur	Roseburgh	10
1986-03-28	Babara	MacCaffrey	10
1973-11-07	Clemmie	Betchley	10
1991-09-04	Elka	Twiddell	10
1985-02-07	Freddi	Boagey	10
1964-08-30	Ilene	Dowson	10
1986-04-13	Ines	Brushfield	10
NULL	jl	ljs	10
1969-10-13	Levy	Mynett	10
1992-05-23	Romola	Rumgay	10
1993-07-17	Thacher	Naseby	10

- ➢ USE sql_hr;
- ➢ SELECT e. employee_id, e. first_name, m. first_name AS manager FROM employees e JOIN employees m ON e. reports_to = m. employee_id;

employee_id	first_name	manager
33391	D'arcy	Yovonnda
37851	Sayer	Yovonnda
40448	Mindy	Yovonnda
56274	Keriann	Yovonnda
63196	Alaster	Yovonnda
67009	North	Yovonnda
67370	Elladine	Yovonnda
68249	Nisse	Yovonnda
72540	Guthrey	Yovonnda
72913	Kass	Yovonnda
75900	Virge	Yovonnda
76196	Mirilla	Yovonnda

employee_id	first_name	manager
68249	Nisse	Yovonnda
72540	Guthrey	Yovonnda
72913	Kass	Yovonnda
75900	Virge	Yovonnda
76196	Mirilla	Yovonnda
80529	Lynde	Yovonnda
80679	Mildrid	Yovonnda
84791	Hazel	Yovonnda
95213	Cole	Yovonnda
96513	Theresa	Yovonnda
98374	Estrellita	Yovonnda
115357	Ivy	Yovonnda

- USE sql_store;
- SELECT o .order_id,o. order_date,c. first_name,c. last_name, os. name AS status
  FROM orders o JOIN customers c ON o. customer_id = c. customer_id JOIN
  order_statuses os ON o.status = os. order_status_id;

Result Grid | Filter Rows: | Export:

order_id	order_date	first_name	last_name	status
8	2018-06-08	Clemmie	Betchley	Processed
6	2018-11-18	Levy	Mynett	Processed
4	2017-01-22	Ines	Brushfield	Processed
3	2017-12-01	Thacher	Naseby	Processed
1	2019-01-30	Elka	Twiddell	Processed
10	2018-04-22	Elka	Twiddell	Shipped
9	2017-07-05	Levy	Mynett	Shipped
7	2018-09-22	Ines	Brushfield	Shipped
5	2017-08-25	Clemmie	Betchley	Shipped
2	2018-08-02	Ilene	Dowson	Shipped

- SELECT o.order_id, c.first_name FROM orders o INNER JOIN customers c ON
  o.customer_id = c.customer_id;

Result Grid | Filter Rows:

order_id	first_name
4	Ines
7	Ines
5	Clemmie
8	Clemmie
1	Elka
10	Elka
2	Ilene
3	Thacher
6	Levy
9	Levy

- SELECT c.first_name,c.last_name, o.order_id FROM customers c LEFT JOIN orders o
  ON c.customer_id = o.customer_id;

Result Grid | Filter Rows:

first_name	last_name	order_id
Babara	MacCaffrey	NULL
Ines	Brushfield	4
Ines	Brushfield	7
Freddi	Boagey	NULL
Ambur	Roseburgh	NULL
Clemmie	Betchley	5
Clemmie	Betchley	8
Elka	Twiddell	1
Elka	Twiddell	10
Ilene	Dowson	2
Thacher	Naseby	3
Romola	Rumgay	NULL
Levy	Mynett	6
Levy	Mynett	9
jl	ljs	NULL

➤ SELECT o.order_id, c.first_name, c.last_name
FROM customers c
RIGHT JOIN orders o ON c.customer_id = o.customer_id;

order_id	first_name	last_name
4	Ines	Brushfield
7	Ines	Brushfield
5	Clemmie	Betchley
8	Clemmie	Betchley
1	Elka	Twiddell
10	Elka	Twiddell
2	Ilene	Dowson
3	Thacher	Naseby
6	Levy	Mynett
9	Levy	Mynett

➤ SELECT first_name , points
FROM customers
WHERE points IN (
SELECT points FROM orders WHERE points>1000);

first_name	points
Babara	2273
Freddi	2967
Clemmie	3675
Elka	3073
Ilene	1672
Romola	1486

➤ SELECT min(points) from customers;

min(points)
205

➤ SELECT max(points) from customers;

max(points)
3675

➤ SELECT SUM(quantity)
FROM Order_items;

SUM(quantity)
87

➢ SELECT avg(unit_price) from products;

avg(unit_price)
2.397273

➢ CREATE VIEW expensive_products AS
SELECT
product_id,
name AS product_name,
unit_price
FROM
products
ORDER BY
unit_price DESC;

➢ SELECT * FROM expensive_products;

product_id	product_name	unit_price
2	Pork - Bacon,back Peameal	4.65
4	Brocolinni - Gaylan, Chinese	4.53
3	Lettuce - Romaine, Heart	3.35
7	Sweet Pea Sprouts	3.29
6	Petit Baguette	2.39
9	Longan	2.26
5	Sauce - Ranch Dressing	1.63
11	heee	1.23
1	Foam Dinner Plate	1.21
10	Broom - Push	1.09
8	Island Oasis - Raspberry	0.74