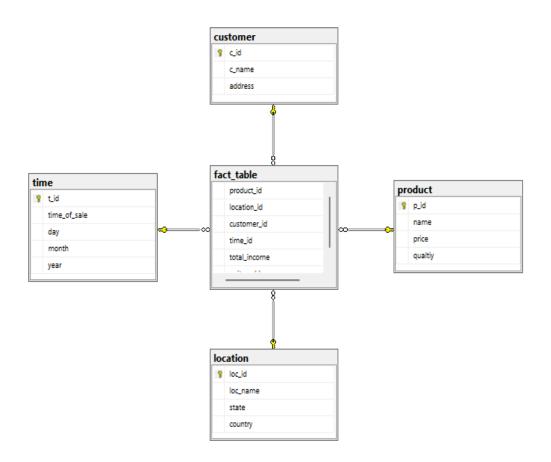
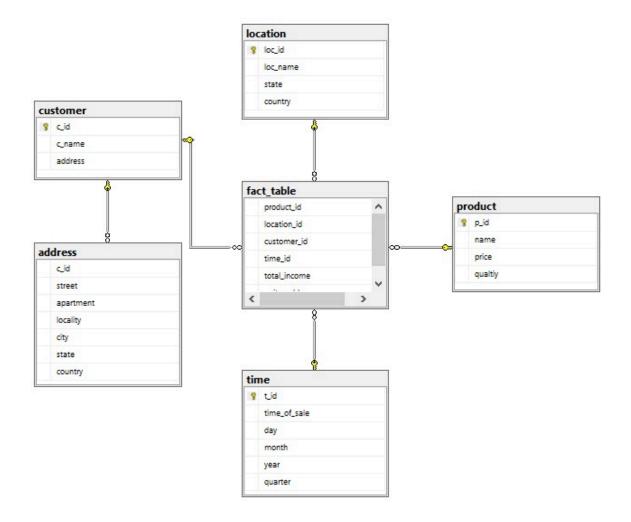
EXPERIMENT NO: 2

• Star Schema:



• Snow Flex Schema



EXPERIMENT NO: 3

/*slice operation*/	l.country,
SELECT	t.quarter,
l.loc_name,	SUM(f.total_income) AS total_income
p.name AS product_name,	FROM
f.total_income	fact_table f
FROM	JOIN location l ON f.location_id = l.loc_id
fact_table f	JOIN time t ON f.time_id = t.t_id
JOIN product p ON f.product_id = p.p_id	GROUP BY
JOIN location 1 ON f.location_id = l.loc_id	1.country, t.quarter
JOIN time t ON f.time_id = t.t_id	/*drill down operation*/
WHERE	SELECT
t.quarter = 'Q3';	l.state,
SELECT	t.month,
l.loc_name,	p.name,
p.name AS product_name,	SUM(f.units_sold) AS units_sold
t.quarter,	FROM
f.total_income	fact_table f
FROM	JOIN location l ON f.location_id = l.loc_id
fact_table f	JOIN time t ON f.time_id = t.t_id
JOIN product p ON f.product_id = p.p_id	JOIN product p ON f.product_id = p.p_id
JOIN location 1 ON f.location_id = l.loc_id	WHERE
JOIN time t ON f.time_id = t.t_id;	1.country = 'USA'
/*rollup operation*/	GROUP BY
SELECT	l.state, t.month, p.name;

	p_id	name	price	qualtiy
1	1	Laptop	1200	9
2	2	Smartphone	800	8
3	3	Tablet	500	7
4	4	Monitor	300	8
5	5	Keyboard	50	7
6	6	Mouse	30	6
7	7	Printer	200	7
8	8	Speaker	100	6
	loc id	loc name	stat	te

	loc_id	loc_name	state	country
1	1	New York City	New York	USA
2	2	Los Angeles	California	USA
3	3	Houston	Texas	USA
4	4	Miami	Florida	USA
5	5	Seattle	Washin	USA
6	6	Las Vegas	Nevada	USA
7	7	Chicago	Illinois	USA
8	8	Columbus	Ohio	USA

	c_id	c_name	address
1	1	Alice	123 Main St, NY
2	2	Bob	456 Maple Ave, CA
3	3	Carol	789 Elm St, TX
4	4	David	321 Oak Rd, FL
5	5	Eve	654 Pine St, WA
6	6	Frank	987 Birch St, NV
7	7	Grace	147 Cedar Ln, IL
8	8	Hank	258 Spruce Rd,

	t_id	time_of_sale	day	month	year
1	1	10:30:00.0000000	12	5	2023
2	2	14:15:00.0000000	13	5	2023
3	3	16:45:00.0000000	14	6	2023
4	4	09:20:00.0000000	15	7	2023
5	5	13:00:00.0000000	16	7	2023
6	6	11:50:00.0000000	17	8	2023
7	7	15:10:00.0000000	18	9	2023
8	8	08:05:00.0000000	19	9	2023