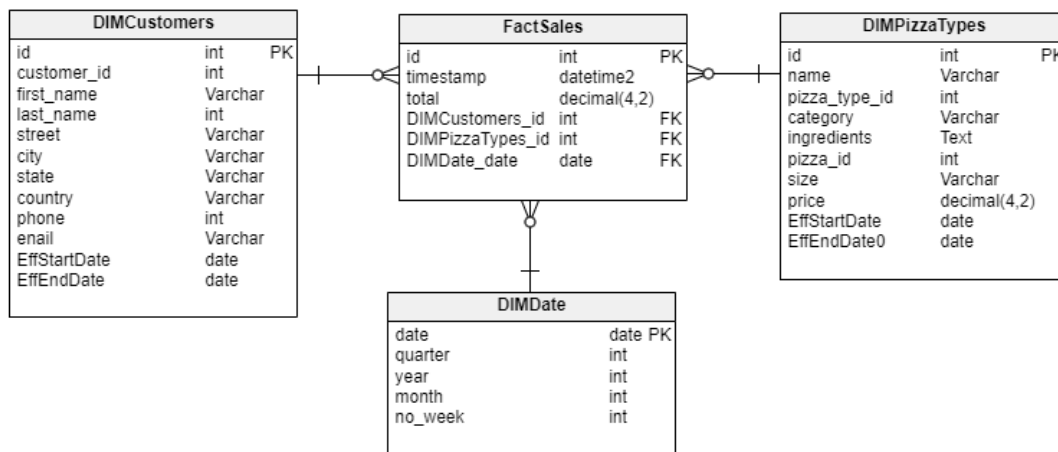
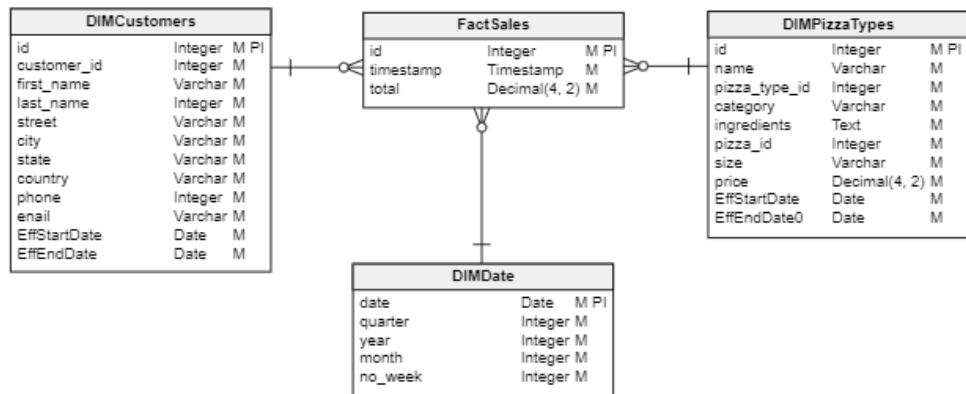
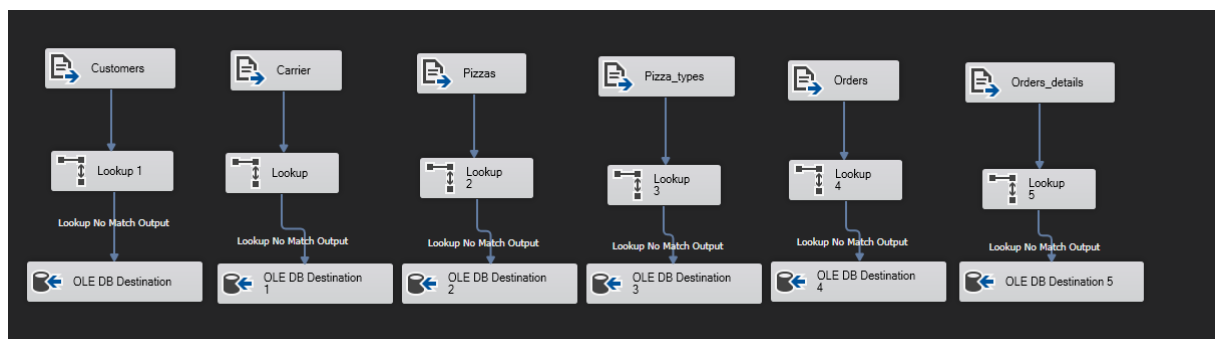


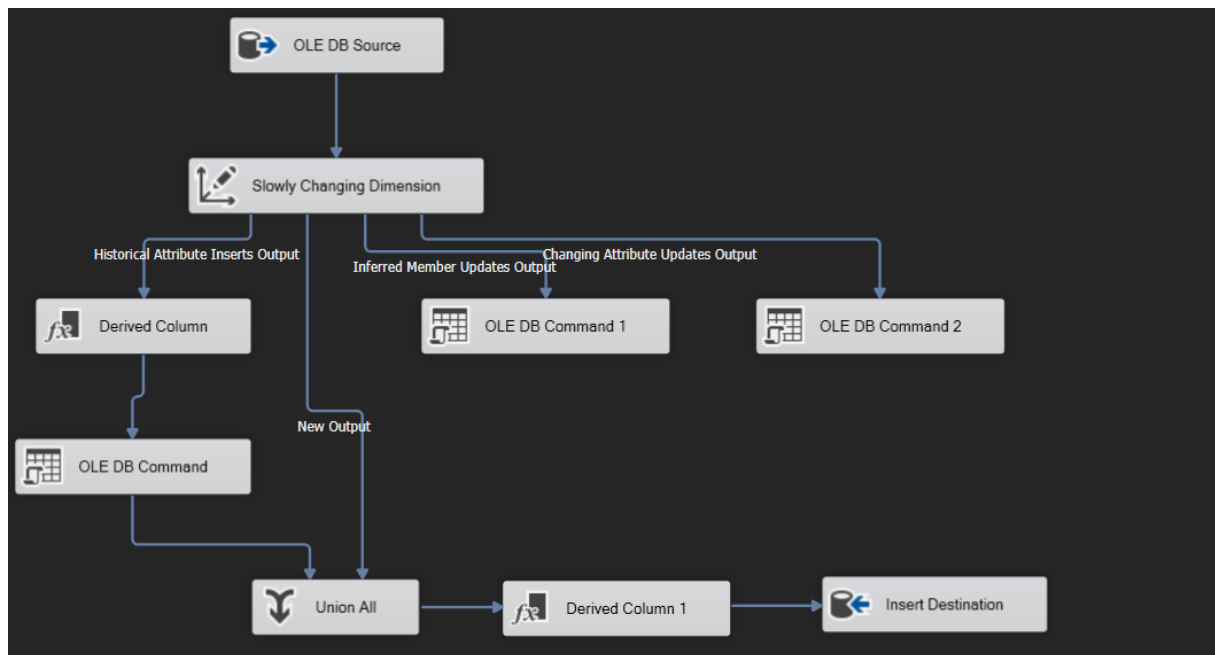
## Exercise 1



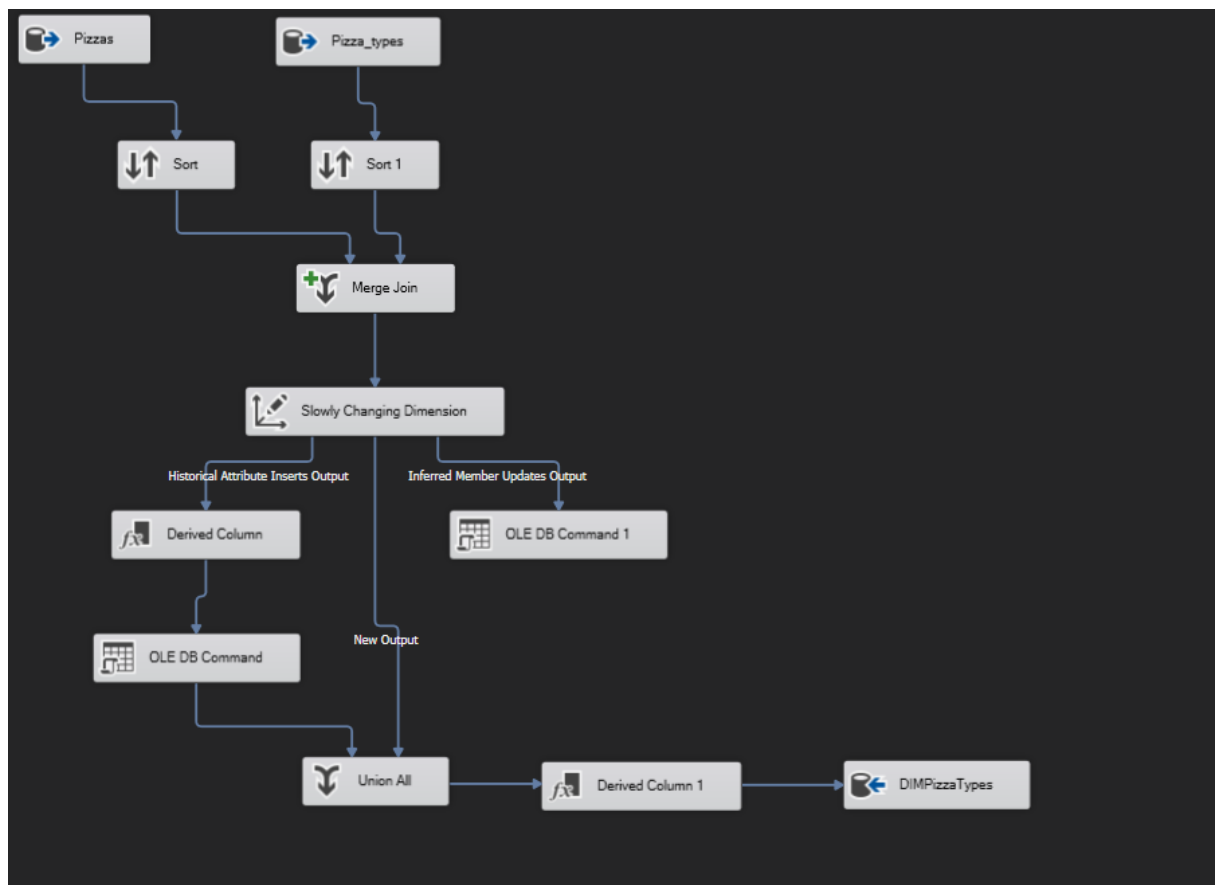
## Exercise 2



### Exercise 3



### Exercise 4



## Exercise 5

	TheDate	TheWeek	TheMonth	TheQuarter	TheYear
1	2015-01-01	1	1	1	2015
2	2015-01-02	1	1	1	2015
3	2015-01-03	1	1	1	2015
4	2015-01-04	2	1	1	2015
5	2015-01-05	2	1	1	2015
6	2015-01-06	2	1	1	2015
7	2015-01-07	2	1	1	2015
8	2015-01-08	2	1	1	2015
9	2015-01-09	2	1	1	2015
10	2015-01-10	2	1	1	2015

```

DECLARE @StartDate date = '20150101';

DECLARE @CutoffDate date = DATEADD(DAY, -1, DATEADD(YEAR, 10, @StartDate));

);WITH seq(n) AS
(
    SELECT 0 UNION ALL SELECT n + 1 FROM seq
    WHERE n < DATEDIFF(DAY, @StartDate, @CutoffDate)
),
d(d) AS
(
    SELECT DATEADD(DAY, n, @StartDate) FROM seq
),
src AS
(
    SELECT
        TheDate      = CONVERT(date, d),
        TheWeek      = DATEPART(WEEK, d),
        TheMonth     = DATEPART(MONTH, d),
        TheQuarter   = DATEPART(Quarter, d),
        TheYear      = DATEPART(YEAR, d)
    FROM d
)
SELECT *
    INTO DIMDate
    FROM src
    ORDER BY TheDate
    OPTION (MAXRECURSION 0);

```

## Exercise 6

