An SQL query that performs surrogate key pipeline and dummy row processing to populate the fact table

```
TRUNCATE TABLE fact_orders;
INSERT INTO fact_orders
SELECT
IFNULL(o.DateSkey, -1) AS order_date_skey,
IFNULL(s.DateSkey, -1) AS ship date skey,
IFNULL(c.Customer_Skey, -1) AS Customer_Skey,
IFNULL(p.product_skey, -1) AS product_skey,
IFNULL(j.junk_skey, -1) AS junk_skey,
f.order_id,
f.unit_sales_amout,
f.sales_quantity,
f.discount_percent,
f.extended_sales_amount
FROM
(
SELECT
order_date,
ship_date,
customer_id,
product_id,
ship_mode,
order_priority,
order_id,
unit_sales_amout,
sales_quantity,
```

```
discount_percent,

extended_sales_amount

FROM sales_transaction S
)f

LEFT OUTER JOIN dim_date o ON f.order_date = o.TheDate

LEFT OUTER JOIN dim_date s ON f.ship_date = s.TheDate

LEFT OUTER JOIN dim_customer c ON f.customer_id = c.customer_id

LEFT OUTER JOIN dim_junk j ON (f.ship_mode = j.ship_mode and f.order_priority = j.order_priority)

LEFT OUTER JOIN dim_product p ON f.product_id = p.product_id;
```

Row count comparison between the sales transactions and the fact table

```
select * from sales_transaction;

select * from fact_orders;
```

 Total sales quantity/amount comparison between the sales transaction and the fact table

```
SELECT sum(sales_quantity * unit_sales_amout)
FROM fact_orders;

SELECT sum(sales_quantity* unit_sales_amout)
FROM sales_transaction;
```