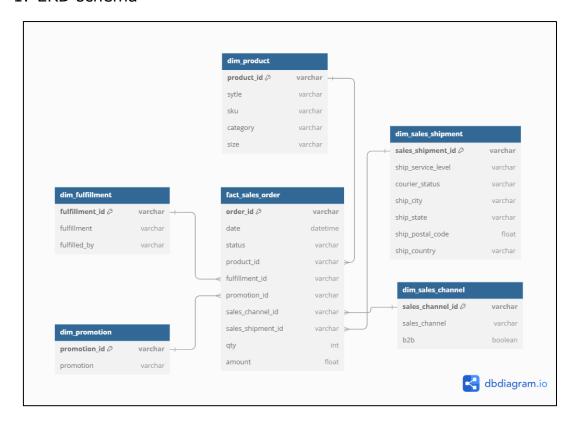# Nama : Malik Fajar Hidayatullah
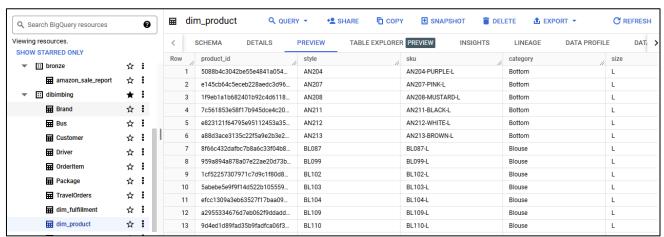
DE 8

1. ERD schema

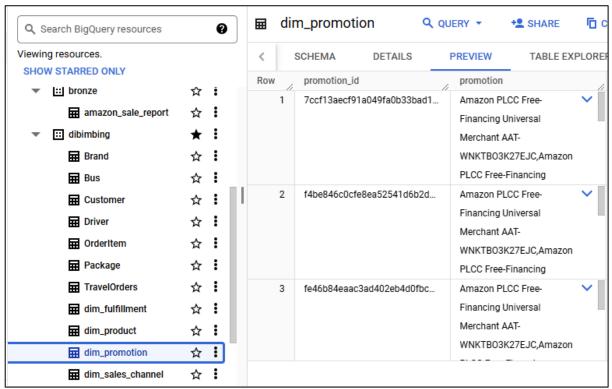2. BigQuery table
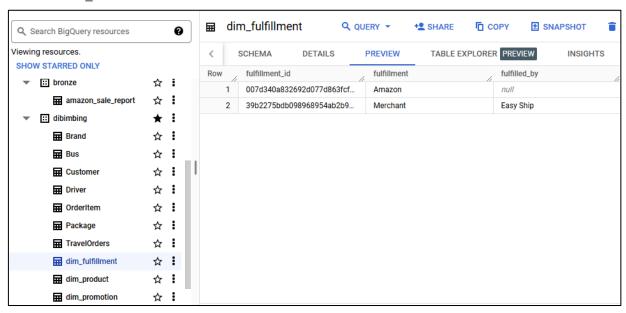   - dim_product

- dim_promotion

- dim_fulfillment

- dim_sales_channel

- dim_sales_shipment

- fact_sales_order

3. Query analysis
   - Top ordered product size

```sql
-- TOP ORDERED PRODUCT SIZE
SELECT
  size,
  count(1) AS total
FROM `just-palace-425914-i4.dibimbing.dim_product` AS pro
INNER JOIN `just-palace-425914-i4.dibimbing.fact_sales_order` AS ord
ON pro.product_id = ord.product_id
GROUP BY 1
ORDER BY 2 DESC
```

Query results

JOB INFORMATION | RESULTS | CHART | JSON | EXECUTION DETAIL

Row	size	total
1	M	22709
2	L	22129
3	XL	20875
4	XXL	18096
5	S	17090
6	3XL	14815
7	XS	11161

- Most cancelled product category

```
20  -- MOST CANCELLED PRODUCT CATEGORY
21  SELECT
22    category,
23    COUNT(1) AS total
24  FROM `just-palace-425914-i4.dibimbing.fact_sales_order` AS ord
25  INNER JOIN  `just-palace-425914-i4.dibimbing.dim_product` AS pro
26  ON ord.product_id = pro.product_id
27  WHERE ord.status = 'Cancelled'
28  GROUP BY 1
29  ORDER BY 2 DESC
```
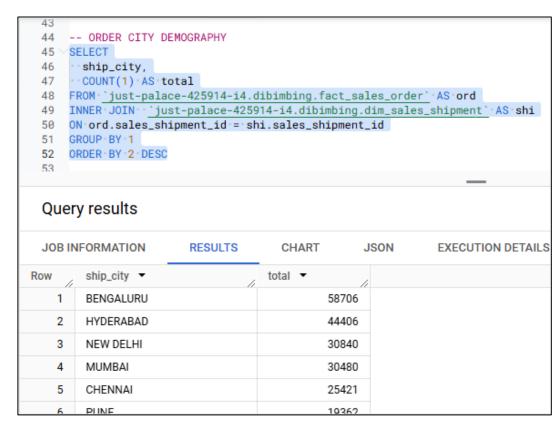
Query results

JOB INFORMATION | RESULTS | CHART | JSON | EXECUTION DE

Row	category ▼	total ▼
1	Set	7336
2	kurta	7253
3	Western Dress	2122
4	Top	1276
5	Ethnic Dress	145
6	Blouse	116

- Order city demography

```
43
44  -- ORDER CITY DEMOGRAPHY
45  SELECT
46    ship_city,
47    COUNT(1) AS total
48  FROM `just-palace-425914-i4.dibimbing.fact_sales_order` AS ord
49  INNER JOIN  `just-palace-425914-i4.dibimbing.dim_sales_shipment` AS shi
50  ON ord.sales_shipment_id = shi.sales_shipment_id
51  GROUP BY 1
52  ORDER BY 2 DESC
53
```

Query results

JOB INFORMATION | RESULTS | CHART | JSON | EXECUTION DETAILS

Row	ship_city ▼	total ▼
1	BENGALURU	58706
2	HYDERABAD	44406
3	NEW DELHI	30840
4	MUMBAI	30480
5	CHENNAI	25421
6	PUNE	19362

- Top order traffic by month

```sql
86  -- TOP ORDER TRAFFIC BY MONTH
87  SELECT
88    CASE EXTRACT(MONTH FROM date)
89      WHEN 3 THEN 'March'
90      WHEN 4 THEN 'April'
91      WHEN 5 THEN 'May'
92      WHEN 6 THEN 'June'
93      END
94    AS month,
95    COUNT(1) as total_order
96  FROM `just-palace-425914-i4.dibimbing.fact_sales_order` AS ord
97  GROUP BY 1
98  ORDER BY 2 DESC
```

Query results

JOB INFORMATION	RESULTS	CHART	JSON	EXECUTIC

Row	month	total_order
1	April	49065
2	May	42036
3	June	37696
4	March	171