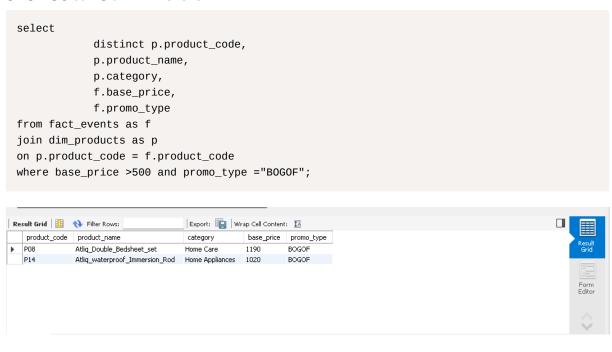
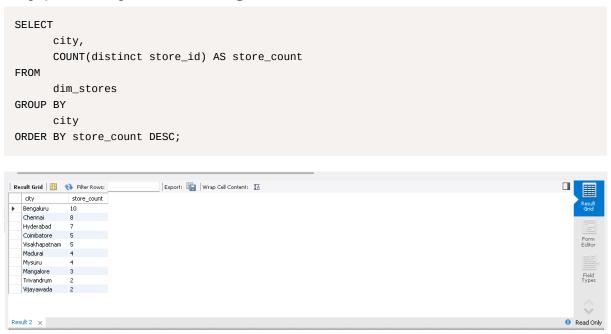
### **SQL Queries**

# Q.1 provide a list of products with a base price > 500 and that are featured in BOGOF



# Q.2 generate a report that showcase number of stores in each city ,order by descending



## Q.3 Generate a report , showcase each compaign along with the total revenue before and after campaign.

#### it includes

campaign\_name,total\_revenue(before\_promotion),total\_revenue(after\_promotic

```
-- change column names
 ALTER TABLE fact_events
 CHANGE COLUMN `quantity_sold(before_promo)` quantity_sold_before_promo INT;
 ALTER TABLE fact_events
 CHANGE COLUMN `quantity_sold(after_promo)` quantity_sold_after_promo INT;
 SELECT
      c.campaign_id,
      c.campaign_name,
      SUM(f.base_price * f.quantity_sold_before_promo)/1000000 AS Total_Revenue_Before_Promo
 _millions,
      SUM(
      (CASE WHEN f.promo_type = '25% off' THEN f.base_price * f.quantity_sold_after_promo EL
 SE 0 END)+
      (CASE WHEN f.promo_type = '33% off' THEN f.base_price * f.quantity_sold_after_promo EL
 SE 0 END)+
      (CASE WHEN f.promo_type = '50% off' THEN f.base_price * f.quantity_sold_after_promo EL
 SE 0 END) +
      (CASE WHEN f.promo_type = '500 off' THEN f.base_price * f.quantity_sold_after_promo EL
 SE 0 END) +
      (CASE WHEN f.promo_type = 'BOGOF' THEN f.base_price * f.quantity_sold_after_promo ELSE
 0 END)
      ) /1000000 AS Total_Revenue_After_Promo_millions
 FROM
      fact_events AS f
 JOTN.
      dim_campaigns AS c ON c.campaign_id = f.campaign_id
 GROUP BY
      c.campaign_id, c.campaign_name;
Export: Wrap Cell Content: IA

        Cesult and IIII
        Whiter kows:
        Export: IIII
        Wrap Cell Content: 1A

        campaign_id
        campaign_ane
        Total_Revenue_Before_promo_millions
        Total_Revenue_After_promo_millions

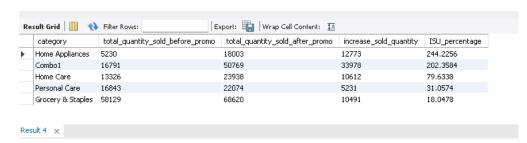
        CAMP_SAN_01
        Sankranti
        58.1274
        103.1709

        CAMP_DIW_01
        Diwali
        82.5738
        55.1492

                                        55.1492
Result 3 ×
                                                                                                                    Read Only
```

Q.4 calculate ISU % for each category during diwali campaign . provides ranking based on ISU % ,

```
SELECT
    p.category,
   SUM(f.quantity_sold_before_promo) AS total_quantity_sold_before_promo,
    {\tt SUM(f.quantity\_sold\_after\_promo)} \ \ {\tt AS} \ \ total\_quantity\_sold\_after\_promo,
   SUM(f.quantity_sold_after_promo) - SUM(f.quantity_sold_before_promo) AS increase_sold_
quantity,
    (SUM(f.quantity_sold_after_promo) - SUM(f.quantity_sold_before_promo)) / SUM(f.quantit
y_sold_before_promo) * 100 AS ISU_percentage
FROM
    fact_events AS f
JOIN
    dim_products AS p ON p.product_code = f.product_code
JOIN
    dim_campaigns as c ON f.campaign_id = c.campaign_id
WHERE
    c.campaign_name = 'Diwali'
GROUP BY
    p.category
ORDER BY
    ISU_percentage DESC;
```



### Q. 5 create a report featuring TOP 5 products by IR % across all campaigns

```
SELECT
    p.product_name,
    p.category,
    ROUND(SUM(f.quantity_sold_after_promo - f.quantity_sold_before_promo) / SUM(f.quantity
_sold_before_promo)* 100,2) AS ISU_percentage
FROM
    fact_events AS f

JOIN
    dim_products AS p ON p.product_code = f.product_code
GROUP BY
    p.product_name,
    p.category

ORDER BY
    ISU_percentage DESC
LIMIT 5;
```

