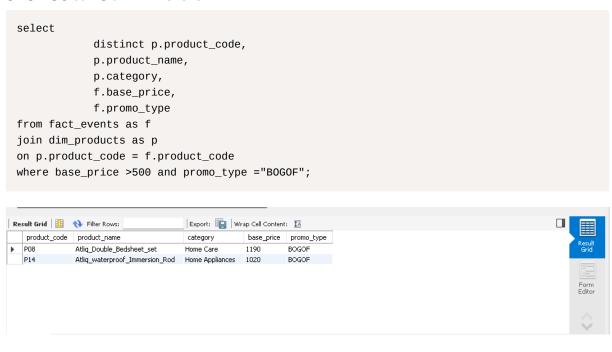
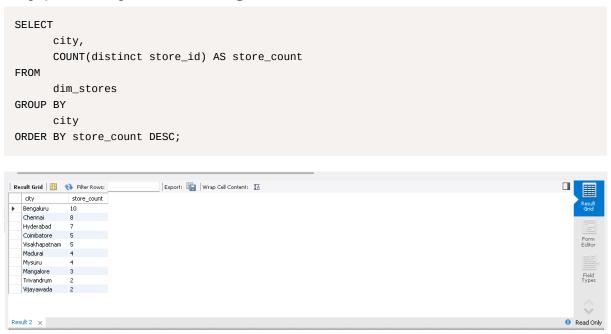
SQL Queries

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_name
        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,
               SUM(f.quantity_sold_after_promo) 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.quantity\_sold\_before\_promo)) \ / \
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;
                           Result Grid | III 🔷 💎 Filter Rows:
                                                                                                                                            Export: 📳 | Wrap Cell Content: 🏗
                                                                           total\_quantity\_sold\_before\_promo \quad total\_quantity\_sold\_after\_promo \quad increase\_sold\_quantity \quad ISU\_percentage
                                 Home Appliances
                                                                          5230
                                                                                                                                                     18003
                                                                                                                                                                                                                           12773
                                                                                                                                                                                                                                                                               244.2256
                                  Combo1
                                                                         16791
                                                                                                                                                     50769
                                                                                                                                                                                                                           33978
                                                                                                                                                                                                                                                                               202.3584
                                   Home Care
                                                                                                                                                     23938
                                                                                                                                                                                                                                                                               79.6338
                                                                          13326
                                                                                                                                                                                                                           10612
                                   Personal Care 16843
                                                                                                                                                     22074
                                                                                                                                                                                                                                                                               31.0574
                                                                                                                                                                                                                           5231
```

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

10491

18.0478

68620

Grocery & Staples 58129

Result 4 🗙

```
SELECT
   fe.compeign_id,
    dp.product_nere,
    dp. cebegory,
    fe.quentity_sold_before_promo,
    fe.quentity_sold_efter_promo,
   CASE
       WHBN fe.promo_type = '25% OFF' THBN (fe.bese_price * 0.75 * fe.quentity_sold_efter_promo) - (fe.bese_price * fe.quentity_sold_before_promo)
       WHEN fe.promo_type = '33% OFF' THEN (fe.base_price * 0.57 * fe.quantity_sold_after_promo) - (fe.base_price * fe.quantity_sold_before_promo)
        WHEN fe.promp_type = '94% OFF' THEN (fe.base_price * 0.5 * fe.quantity_sold_after_promp) - (fe.base_price * fe.quantity_sold_before_promp)
        WHEN fe.promo_type = '500 (eshbeck' THEN ((fe.bese_price - 500) = fe.quentity_sold_efter_promo) - (fe.bese_price = fe.quentity_sold_before_promo)
        WHEN fe.promo_type = 'BOOF' THEN (fe.base_price * 0.5 * fe.quantity_sold_after_promo) - (fe.base_price * fe.quantity_sold_before_promo)
                    \textbf{ELSE (fe,bese\_price } \texttt{x} \texttt{ fe,quentity\_sold\_efter\_promo) } + (fe,bese\_price \texttt{x} \texttt{ fe,quentity\_sold\_before\_promo)} 
    BND AS incremental_revenue,
   CASE
        WHEN (fe.bese_price * fe.quentity_sold_before_promo) ↔ ♦ THEN
            ((CASE
                WHEN fe.promo_type = '25% OFF' THEN (fe.base_price * 0.75 * fe.quantity_sold_after_promo) - (fe.base_price * fe.quantity_sold_before_promo)
                WHEN fe.promo_type = '33% OFF' THEN (fe.base_price * 0.57 * fe.quantity_sold_after_promo) - (fe.base_price * fe.quantity_sold_before_promo)
                WHEN fe.promo_type = '90% OFF' THEN (fe.bese_price * 0.5 * fe.quentity_sold_efter_promo) - (fe.bese_price * fe.quentity_sold_before_promo)
                WHEN fe.promo_type = '500 Cashback' THEN ((fe.base_price - 500) = fe.quantity_sold_after_promo) - (fe.base_price = fe.quantity_sold_bafore_promo)
                WHEN fe.promo_type = 'BOOF' THEN (fe.bese_price * 0.5 * fe.quentity_sold_efter_promo) - (fe.bese_price * fe.quentity_sold_before_promo)
                \textbf{ELSE} \ (\texttt{fe.bese\_price} \ ^{\times} \ \texttt{fe.quentity\_sold\_efter\_promo}) \ \cdot \ (\texttt{fe.bese\_price} \ ^{\times} \ \texttt{fe.quentity\_sold\_before\_promo})
            BND) / (fe.bese_price * fe.quentity_sold_before_promo)) * 100
        ELSE NULL
    BND AS incremental_revenue_percentage
   fact_events fe
    dim_products dp 04 fe.product_code = dp.product_code
ORDER BY
   incremental_revenue_percentage DESC
LIMIT 5;
```

