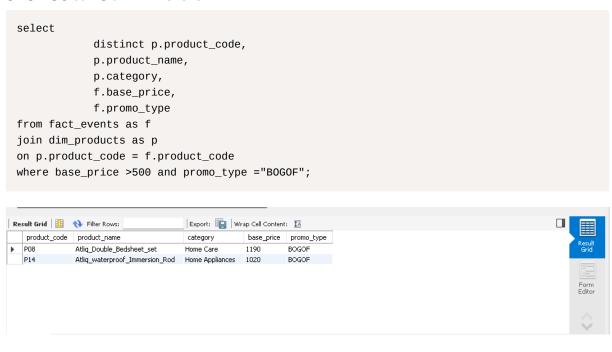
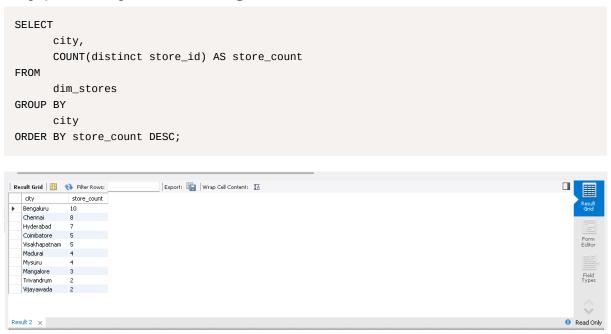
SQL Queries

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_name,
   SUM(fe.base_price * fe.quantity_sold_before_promo) / 1000000 AS total_revenue_before_p
romo_millions,
    SUM(
        CASE
            WHEN fe.promo_type = '25% OFF' THEN fe.base_price * 0.75 * fe.quantity_sold_af
ter_promo
            WHEN fe.promo_type = '33% OFF' THEN fe.base_price * 0.67 * fe.quantity_sold_af
ter_promo
            WHEN fe.promo_type = '50% OFF' THEN fe.base_price * 0.5 * fe.quantity_sold_aft
er_promo
            WHEN fe.promo_type = '500 Cashback' THEN (fe.base_price - 500) * fe.quantity_s
old_after_promo
            WHEN fe.promo_type = 'BOGOF' THEN fe.base_price * 0.5 * fe.quantity_sold_after
_promo
            ELSE fe.base_price * fe.quantity_sold_after_promo
    ) / 1000000 AS total_revenue_after_promo_millions
FROM
    fact_events fe
    dim_campaigns c ON fe.campaign_id = c.campaign_id
WHERE
    c.campaign_name IN ('Diwali', 'Sankranti')
GROUP BY
    c.campaign_name;
                                                  Export: 📳 | Wrap Cell Content: 🏗
                   campaign_name total_revenue_before_promo_millions total_revenue_after_promo_millions
                                                      87.695812
                     Sankranti
                                58.1274
                     Diwali
                                82,5738
                                                      160.288722
```

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 🔷 N 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;
```

