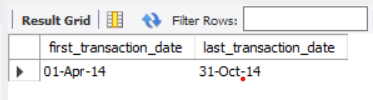
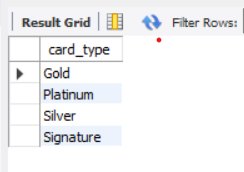
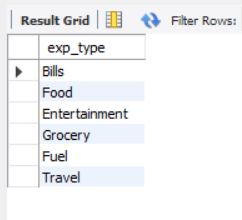
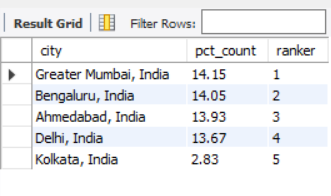
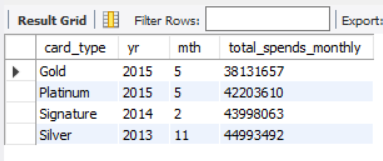
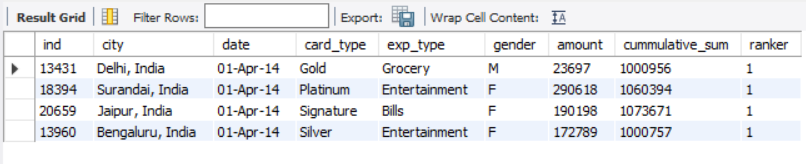
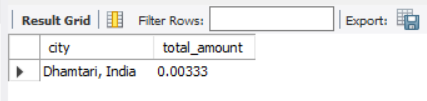
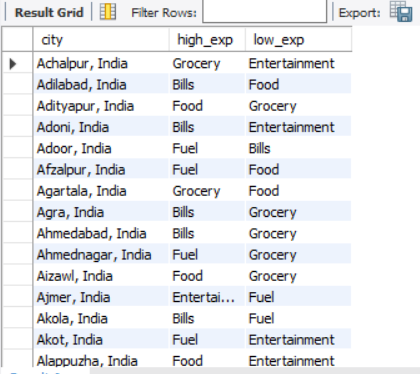
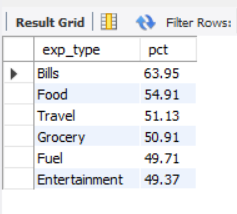
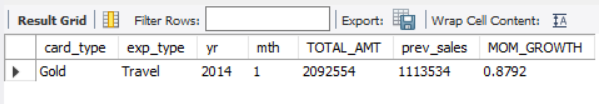
* CREDIT CARD SPENDING HABITS IN INDIA SQL QUERY REPORT
* FIRST & LAST TRANSACTION DETAILS :
  + SELECT MIN(date) as first\_transaction\_date, MAX(date) AS last\_transaction\_date
  + FROM cc\_transactions.cc;
  + 
* DIFFERENT TYPE OF CARDS :
  + SELECT DISTINCT card\_type
  + FROM cc\_transactions.cc;
  + 
* EXPENSES WHERE USERS SPEND THEIR MONEY :
  + SELECT DISTINCT exp\_type
  + FROM cc\_transactions.cc;
  + 
* TOP 5 CITIES WITH HIGHEST SPENDS :
  + WITH top\_5\_pct as
  + (SELECT DISTINCT city,
  + SUM(amount)OVER() AS total\_spends\_by\_all\_city,
  + SUM(amount) OVER(PARTITION BY city) AS total\_spends\_per\_city
  + FROM cc\_transactions.cc
  + )
  + SELECT \* FROM (
  + SELECT city,
  + ROUND(total\_spends\_per\_city/total\_spends\_by\_all\_city \* 100,2) AS pct\_count,
  + DENSE\_RANK() OVER(ORDER BY total\_spends\_per\_city DESC)AS ranker
  + FROM top\_5\_pct) x
  + WHERE ranker <=5;
  + 
* HIGHEST SPEND MONTH BY EACH CARD
* WITH monthly\_highest as
* (SELECT card\_type, YEAR(date) as yr, MONTH(date) as mth , SUM(amount) as total\_spends\_monthly,
* DENSE\_RANK() OVER(PARTITION BY card\_type order by sum(amount)) AS ranker
* FROM cc\_transactions.cc
* GROUP BY card\_type, YEAR(date), MONTH(date))
* SELECT card\_type,yr,mth,total\_spends\_monthly
* FROM monthly\_highest
* WHERE ranker = 1;



* WHEN DOES A CARD REACHES TO A CUMMULATIVE SPENDS OF 10,00,000 INR
  + WITH first\_reach as
  + (SELECT \* ,
  + SUM(amount) OVER(PARTITION BY card\_type ORDER BY date,ind) AS cummulative\_sum
  + FROM cc\_transactions.cc)
  + SELECT \* FROM
  + (SELECT \* ,
  + RANK() OVER(PARTITION BY card\_type ORDER BY cummulative\_sum) AS ranker
  + FROM first\_reach
  + WHERE cummulative\_sum >= 1000000
  + ) x
  + WHERE x.ranker = 1;
  + 
* CITY WHICH HAD LOWEST PERCENTAGE SPEND FOR GOLD TYPE :
  + WITH gold\_spends\_pct as
  + (SELECT city,card\_type, sum(amount) AS total\_spends,
  + SUM(CASE WHEN card\_type = 'Gold' THEN amount end) AS gold\_amount
  + FROM cc\_transactions.cc
  + GROUP BY city,card\_type)
  + SELECT city, SUM(gold\_amount)\*1.0 / SUM(total\_spends) AS total\_amount
  + FROM gold\_spends\_pct
  + GROUP BY city
  + HAVING COUNT(gold\_amount) > 0
  + ORDER BY total\_amount
  + LIMIT 1;
  + 
* DIFFERENT CITIES AND THEIR HIGHEST SPENDS EXPENSE TYPE AND LOWEST SPENDS EXPENSE TYPE :
  + WITH high\_low as
  + (SELECT city,exp\_type, SUM(amount) AS total\_amount,
  + DENSE\_RANK() OVER(PARTITION BY city ORDER BY sum(amount) DESC) as dsc\_rnk,
  + FROM cc\_transactions.cc
  + GROUP BY city,exp\_type
  + ORDER BY city,exp\_type)
  + SELECT city, MAX(CASE WHEN dsc\_rnk = 1 then exp\_type end) as high\_exp,
  + MAX(CASE WHEN asc\_rnk = 1 then exp\_type end) as low\_exp
  + FROM high\_low
  + GROUP BY city
  + 
* PERCENTAGE CONTRIBUTION OF FEMALES FOR EACH EXPENSE TYPE:
  + SELECT exp\_type, ROUND(100\* SUM(CASE WHEN Gender = 'F' then amount else 0 end) / SUM(amount),2) as pct
  + FROM cc\_transactions.cc
  + GROUP BY exp\_type
  + ORDER BY pct DESC;



* + CARDTYPE AND EXPENSE TYPE COMBINATION FOR MONTH OVER MONTH GROWTH IN JAN 2014 :
    - WITH MOM AS
    - (SELECT card\_type,exp\_type, YEAR(date) AS yr, MONTH(date) AS mth , SUM(amount) AS TOTAL\_AMT
    - FROM cc\_transactions.cc
    - GROUP BY card\_type,exp\_type,YEAR(date),MONTH(date)
    - )
    - , MOM\_PREV AS
    - (SELECT \* ,
    - LAG(TOTAL\_AMT,1) OVER(PARTITION BY card\_type,exp\_type ORDER BY yr,mth) AS prev\_sales
    - FROM MOM)
    - SELECT \*, (TOTAL\_AMT - prev\_sales)/prev\_sales AS MOM\_GROWTH
  + FROM MOM\_PREV
    - WHERE mth = 1 AND yr = 2014
    - ORDER BY MOM\_GROWTH DESC
    - LIMIT 1
  + ;



* TOTAL AMOUNT USERS LIKE TO SPEND IN DIFFERENT CITIES DURING WEEKENDS :
  + SELECT city , sum(amount) / COUNT(\*) as total1
  + FROM cc\_transactions.cc
  + WHERE DAYNAME(date) in ('Saturday','Sunday')
  + GROUP BY city;



* WHICH CITY TOOK LEAST NUMBER OF DAYS TO REACH ITS 500TH TRANSACTION AFTER THE FIRST TRANSACTION IN THE CITY :
  + WITH trans\_500 AS
  + (SELECT \*, ROW\_NUMBER() OVER(PARTITION BY city order by date,ind) AS rn
  + FROM cc\_transactions.cc
  + )
  + SELECT city , ABS(DATEDIFF(min(date),max(date))) AS diff from trans\_500
  + WHERE rn = 1 OR rn = 500
  + GROUP BY city
  + HAVING COUNT(\*) = 2
  + ORDER BY diff;

