**SQL Project: Credit Card Transaction India Findings**

**1- Write a query to print top 5 cities with highest spends and their percentage contribution of total credit card spends?**

1. Greater Mumbai 14.15 %
2. Bengaluru 14.05 %
3. Ahmedabad 13.93 %
4. Delhi 13.67 %
5. Kolkata 2.83%

**2- Write a query to print highest spend month and amount spent in that month for each card type?**

|  |  |  |  |
| --- | --- | --- | --- |
| **Card Type** | **Year** | **Month** | **Amount** |
| Gold | 2015 | Jan | 55455064 |
| Platinum | 2014 | Aug | 57936507 |
| Signature | 2013 | Dec | 58799522 |
| Silver | 2015 | Mar | 59723549 |

**3- Write a query to print the transaction details (all columns from the table) for each card type when it reaches a cumulative of 1000000 total spends?  
(We should have 4 rows in the o/p one for each card type).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **transaction\_id** | **card\_type** | **exp\_type** | **gender** | **total\_spent** |
| 1522 | Gold | Food | M | 1272624 |
| 191 | Platinum | Bills | F | 1537482 |
| 73 | Signature | Bills | F | 1285819 |
| 7565 | Silver | Food | F | 1115582 |

**4- Write a query to find city which had lowest percentage spend for gold card type?**

|  |  |  |
| --- | --- | --- |
| **city** | **total\_spent** | **contribution** |
| Dhamtari | 1416 | 0.00014382357926965 |

**5- Write a query to print 3 columns: city, highest\_expense\_type , lowest\_expense\_type? (example format: Delhi , bills, Fuel).**

There are 986 rows with different cities name -

|  |  |  |
| --- | --- | --- |
| **city** | **highest\_expense\_type** | **lowest\_expense\_type** |
| Achalpur | Grocery | Entertainment |
| Adilabad | Bills | Food |
| Adityapur | Food | Grocery |
| Adoni | Bills | Entertainment |

**6- Write a query to find percentage contribution of spends by females for each expense type?**

|  |  |  |
| --- | --- | --- |
| **exp\_type** | **gender** | **female\_contribution** |
| Bills | F | 63.95 |
| Entertainment | F | 49.37 |
| Food | F | 54.91 |
| Fuel | F | 49.71 |
| Grocery | F | 50.91 |
| Travel | F | 51.13 |

**7- Which card and expense type combination saw highest month over month growth in Jan-2014?**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **card\_type** | **exp\_type** | **yr** | **mn** | **curr\_month\_spent** | **prev\_month\_spent** | **mon\_growth** |
| Gold | Travel | 2014 | 1 | 2092554 | 1113534 | 0.879200814703458 |

**8- During weekends which city has highest total spend to total no of transactions ratio?**

* City: Sonepur
* Ratio: 299905

**9- Which city took least number of days to reach its 500th transaction after the first transaction in that city?**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **city** | **first\_transaction** | **last\_transaction** | **number\_of\_days** | **rnk** |
| Bengaluru | 2013-10-04 00:00:00.000 | 2013-12-24 00:00:00.000 | 81 | 1 |