**Listing new functions used**

*We have used 47 new functions, other than the basic function mentioned in the SQL assignment, to solve the main 80 questions and additional queries*

| **Window Function** | **Analytical Function** | **Statistical Function** | **Mathematical Function** | **String/Date/Others** |
| --- | --- | --- | --- | --- |
| OVER()  PARTITION BY  ORDER BY  RANK()  ROW\_NUMBER()  LAG()  LEAD()  RNK() | CROSSTAB  FIRST\_VALUE  NTH\_VALUE  FORMAT()  COMMON TABLE EXPRESSION(CTE)  CASE  WIDTH\_BUCKET  NTILE  CAST  pg\_database\_size  pg\_size\_pretty() and pg\_relation\_size('labs')  GENERATE SERIES  RAISE EXCEPTION | PERCENTILE\_CONT  STDDEV\_SAMP  CUME\_DIST()  CORRELATION  REPEAT - BAR CHART | lcm() and gcf()  ROUND  POWER()  SQRT()  RANDOM  ARRAY\_AGG(ROW)  STDDEV | EXTRACT  CONCAT  REVERSE  LIMIT  RECURSIVE  UNION ALL  IFNULL & COALESCE()  DATE\_TRUNC  RAISE\_NOTICE  STRING\_AGG  JSON\_AGG  REGEX ~\*  TO\_CHAR |