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/* Generated Code (IMPORT) */
/* Source File: citibike-tripdata.xlsx */
/* Source Path: /home/u60801448/my shared file links/u50396654 */
/* Code generated on: 4/26/22, 6:38 PM */
/***** Student PNumber P2670683 ************/
%web_drop_table(WORK.IMPORT);
FILENAME REFFILE '/home/u60801448/my_shared_file_links/u50396654/citibike-tripdata.xlsx';
PROC IMPORT DATAFILE=REFFILE
    DBMS=XLSX
    OUT=WORK.IMPORT;
    GETNAMES=YES;
RUN;
PROC CONTENTS DATA=WORK.IMPORT; RUN;
%web_open_table(WORK.IMPORT);
/*2)b)i) Using sql procedure to remove incorrectly inputted data*/
/*select code and run to display*/
proc sql;
select *
   from WORK.IMPORT
      where not missing (end_station_name,end_station_id);
     QUIT;
/*2)b)ii) Reformating date and time*/
/*select code and run to display*/
data splitted;
set WORK.IMPORT;
    /*splits start_at into date and time*/
  started at date = datepart(started at);
  started_at_time = timepart(started_at);
  /*splits end at into date and time*/
 ended_at_date = datepart(ended_at);
  ended_at_time = timepart(ended_at);
  /*date format*/
 format started at date date9.;
 format ended_at_date date9.;
  /*time format*/
 format started_at_time time8.;
 format ended at time time8.;
RUN;
/*3)a)i) total number of bikes collected/undocked*/
/*select code and run to display*/
proc sql;
create view bikesCollected as
         select Count(started_at) AS no_of_bikes_collected, start_station name
            from WORK.IMPORT
            group by start_station_name;
            QUIT;
/*3)b) total number of bikes returned*/
/*select code and run to display*/
proc sql;
create view bikesReturned as
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select Count(ended_at) AS no_of_bikes_returned, end_station_name
            from WORK.IMPORT
            where not missing (end station name, end station id)
            group by end station name;
            QUIT;
/*3)c) Type of customer mostly using citebike*/
/*select code and run to display*/
proc sql;
create table memberTable As
    select Count(member casual) AS no of member customers, member casual
     from WORK.IMPORT
     where member casual = "member"
      group by member_casual;
        quit;
proc sql;
create table casualTable As
      select Count(member_casual) AS no_of_casual_customers, member_casual
        from WORK.IMPORT
          where member_casual = "casual"
          group by member_casual;
            QUIT;
proc sql;
create view customerType as
      select no_of_member_customers, member_casual
        from memberTable
        group by member_casual
        union
        select no of casual customers, member casual
        from casualTable
        group by member_casual;
            QUIT;
/*3)d) Most common duration of bike used in minutes*/
/*select code and run to display*/
proc sql inobs = 5;
create table DurationTable As
      select ride_id, MAX(intck('min',started_at_time, ended_at_time)) AS Duration
        from WORK.SPLITTED
        group by ride id
        order by Duration DESC;
            QUIT;
/*3)e)i) Frequency of bikes collected*/
/*select code and run to display*/
proc sql;
create table bikesCollectedLocation As
      select Count(started at) AS no of bikes collected, start Lat, start Lng
        from WORK.IMPORT
           group by start_Lat;
            QUIT;
/*3)e)ii) Frequency of bikes returned*/
/*select code and run to display*/
proc sql;
create table bikesReturnedLocation As
      select Count(started_at) AS no_of_bikes_collected, end_Lat, end_Lng
        from WORK.IMPORT
        where not missing (end_station_name,end_station_id)
           group by end Lat;
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QUIT;
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/*3)f)i) stations member customers collecting citebike*/
/*select code and run to display*/
proc sql;
create table bikesCollectedMember As
      select member_casual AS member_customer, start_station_name
        from WORK.IMPORT
         where member_casual = "member"
         group by start station name;
            QUIT;
/*3)g)i) stations casual customers collecting citebike*/
/*select code and run to display*/
proc sql;
create table bikesCollectedCasual As
      select member_casual AS casual_customer, start_station_name
        from WORK.IMPORT
         where member casual = "casual"
         group by start station name;
            QUIT;
/*3)h)i) member time interval*/
/*select code and run to display*/
proc sql;
create table memberTimeInterval As
      select member_casual AS member_customer, ended_at_time ,
     when ended_at_time BETWEEN '01:00:00't AND '11:59:00't then 'Morning'
      when ended at time BETWEEN '12:00:00't AND '18:00:00't then 'Afternoon'
      else 'Evening'
      end as time_interval
        from WORK.SPLITTED
         where member_casual = "member"
         group by time_interval;
            QUIT;
/*3)i)i) casual time interval*/
/*select code and run to display*/
proc sql;
create table casualTimeInterval As
      select member casual AS member customer, ended at time,
      case
     when ended at time BETWEEN '01:00:00't AND '11:59:00't then 'Morning'
     when ended_at_time BETWEEN '12:00:00't AND '18:00:00't then 'Afternoon'
      else 'Evening'
      end as time interval
        from WORK.SPLITTED
         where member casual = "casual"
         group by time interval;
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