



MIS Department Data Analytics Challenge

Appendix A: Data Tables and Columns

Review the NHTSA analytical user manual for more details (available on D2L under the "MIS Career Management" course > MIS Orientation > Data Analytics Challenge)

The combination of Year and ST_CASE can be used to link most tables (some tables may additionally require a VEH_CODE / PER_NO)

Accidents

Data Column	Meaning
ACCIDENTYEAR	Accident Year
STATE	State code
STATENAME	State name text
ST_CASE	Sequential number assigned to each case. Two characters for state code followed by four characters for a Case Number. Starts at 0001 each year.
VE_TOTAL	Number of Vehicle Forms Submitted- ALL
VE_FORMS	Number of Motor Vehicles in Transport (MVIT)
PVH_INVL	Number of Parked/Working Vehicles
PEDS	Number of Forms Submitted for Persons Not in Motor Vehicles
PERSONS	Number of Forms Submitted for Persons in Motor Vehicles
PERMVIT	Number of Persons in Motor Vehicles in Transport (MVIT)
PERNOTMVIT	Number of Persons Not in Motor Vehicles in Transport (MVIT)
COUNTY	County code
COUNTYNAME	County name text
CITYNAME	City
DAY	Day of Crash
MONTH	Month of Crash
YEAR	Year of Crash
DAY_WEEK	Day of Week code
DAY_WEEKNAME	Day of Week name text
HOURL	Hour of Crash code
HOURLNAME	Hour of Crash name text
MINUTENAME	Minute of Crash
NHSNAME	National Highway System
ROUTE	Route Signing code
ROUTENAME	Route Signing name text
TWAY_ID	Trafficway Identifier

TWAY_ID2	Trafficway Identifier
RUR_URB	Land Use code
RUR_URBNAME	Land Use name text
FUNC_SYS	Functional System code
FUNC_SYSNAME	Functional System name text
RD_OWNER	Ownership code
RD_OWNERNAME	Ownership name text
MILEPT	Milepoint code
MILEPTNAME	Milepoint name text
LATITUDENAME	Latitude
LONGITUDNAME	Longitude
SP_JURNAME	Special Jurisdiction
HARM_EV	First Harmful Event code
HARM_EVNAME	First Harmful Event name text
MAN_COLL	Manner of Collision of the First Harmful Event code
MAN_COLLNAME	Manner of Collision of the First Harmful Event name text
RELJCT1	Relation to Junction- Within Interchange Area code
RELJCT1NAME	Relation to Junction- Within Interchange Area name text
RELJCT2	Relation to Junction- Specific Location code
RELJCT2NAME	Relation to Junction- Specific Location name text
TYP_INT	Type of Intersection code
TYP_INTNAME	Type of Intersection name text
WRK_ZONENAME	Work Zone
REL_ROAD	Relation to Trafficway code
REL_ROADNAME	Relation to Trafficway name text
LGT_COND	Light Condition code
LGT_CONDNAME	Light Condition name text
WEATHER	Atmospheric Conditions code
WEATHERNAME	Atmospheric Conditions name text
SCH_BUS	School Bus Related
NOT_HOUR	Hour of Notification code
NOT_HOURLNAME	Hour of Notification name text
NOT_MINNAME	Minute of Notification
ARR_HOUR	Hour of Arrival at Scene code
ARR_HOURLNAME	Hour of Arrival at Scene name text
ARR_MINNAME	Minute of Arrival at Scene
HOSP_HR	Hour of EMS Arrival at Hospital code
HOSP_HRNAME	Hour of EMS Arrival at Hospital name text
HOSP_MNNAME	Minute of EMS Arrival at Hospital
FATALS	Fatalities Number of Fatalities That Occurred in the Crash
DRUNK_DR	Number of Drinking Drivers Involved in the Fatal Crash

Vehicles

Data Column	Meaning
YEAR	Year of Accident
STATE	State code
STATENAME	State name text
ST_CASE	Sequential number assigned to each case. Two characters for state code followed by four characters for a Case Number. Starts at 0001 each year.
VEH_NO	Vehicle Number
NUMOCCS	Number of Occupants code
NUMOCCSNAME	Number of Occupants name text
HIT_RUNNAME	Hit and Run
REG_STATNAME	Registration State
OWNERNAME	Registered Vehicle Owner
MOD_YEARNAME	Vehicle Model Year
MAKENAME	NCSA Make
MAK_MOD	NCSA Make Model Combined code
MAK_MODNAME	NCSA Make Model Combined name text
MODEL	NCSA Model
BODY_TYPNAME	NCSA Body Type
TOW_VEHNAME	Vehicle Trailing
V_CONFIGNAME	Vehicle Configuration
CARGO_BTNAME	Cargo Body Type
TRAV_SP	Travel Speed code
TRAV_SPNAME	Travel Speed name text
VSPD_LIM	Speed Limit code
VSPD_LIMNAME	Speed Limit name text
SPEEDRELNAME	Speeding Related
DEATHS	Fatalities in Vehicle
ACC_TYPE	Crash Type code
ACC_TYPENAME	Crash Type name text
SPEC_USENAME	Special Use
ROLLOVERNAME	Rollover
ROLINLOCNAME	Location of Rollover
IMPACT1NAME	Area of Impact – Initial Contact Point
DEFORMEDNAME	Extent of Damage
TOWEDNAME	Vehicle Removal
M_HARMNAME	Most Harmful Event
FIRE_EXPNAME	Fire Occurrence
DR_DRINK	Driver Drinking code
DR_DRINKNAME	Driver Drinking name text

L_STATENAME	Driver's License State
DR_ZIPNAME	Driver's ZIP Code
DR_HGTNAME	Driver Height
DR_WGT	Driver Weight code
DR_WGTNAME	Driver Weight name text
PREV_ACC	Previous Recorded Crashes code
PREV_ACCNAME	Previous Recorded Crashes name text
PREV_SUS2	Previous administratively imposed suspensions, revocations, withdrawals for BAC (Not Underage) code
PREV_SUS2NAME	Previous administratively imposed suspensions, revocations, withdrawals for BAC (Not Underage) name text
PREV_DWI	Previous DWI Convictions code
PREV_DWINAME	Previous DWI Convictions name text
PREV_SPD	Previous Speeding Convictions code
PREV_SPDNAME	Previous Speeding Convictions name text
PREV_OTH	Previous Other Moving Violation Convictions code
PREV_OTHNAME	Previous Other Moving Violation Convictions name text
FIRST_MO	Month of Oldest Crash, Suspension or Conviction code
FIRST_MONAME	Month of Oldest Crash, Suspension or Conviction name text
FIRST_YR	Year of Oldest Crash, Suspension or Conviction code
FIRST_YRNAME	Year of Oldest Crash, Suspension or Conviction name text
LAST_MO	Month of Most Recent Crash, Suspension or Conviction code
LAST_MONAME	Month of Most Recent Crash, Suspension or Conviction name text
LAST_YR	Year of Most Recent Crash, Suspension or Conviction code
LAST_YRNAME	Year of Most Recent Crash, Suspension or Conviction name text
L_TYPE	Non-CDL License Type code
L_TYPENAME	Non-CDL License Type name text
L_STATUSNAME	Non-CDL License Status
CDL_STATNAME	Commercial Motor Vehicle License Status
L_ENDORSNAME	Compliance with CDL Endorsements
L_COMPLNAME	License Compliance with Class of Vehicle
L_RESTRNAME	Compliance with License Restrictions
P_CRASH1	Pre-Event Movement (Prior to Recognition of Critical Event) code
P_CRASH1NAME	Pre-Event Movement (Prior to Recognition of Critical Event) name text
P_CRASH2	Critical Event- Precrash code
P_CRASH2NAME	Critical Event- Precrash name text
P_CRASH3	Attempted Avoidance Maneuver code
P_CRASH3NAME	Attempted Avoidance Maneuver name text
PCRASH4	Pre-Impact Stability code
PCRASH4NAME	Pre-Impact Stability name text
PCRASH5	Pre-Impact Location code
PCRASH5NAME	Pre-Impact Location name text

VTRAFWAY	Trafficway Description code
VTRAFWAYNAME	Trafficway Description name text
VNUM_LAN	Total Lanes in Roadway code
VNUM_LANNAME	Total Lanes in Roadway name text
VALIGNNAME	Roadway Alignment
VPROFILENAME	Roadway Grade
VPAVETYPNAME	Roadway Surface Type
VSURCONDNAME	Roadway Surface Condition
VTRAFCONNAME	Traffic Control Device
VTCONT_FNAME	Traffic Control Device Functioning

Persons

Data Column	Meaning
YEAR	Year of Accident
STATE	State code
STATENAME	State name text
ST_CASE	Sequential number assigned to each case. Two characters for state code followed by four characters for a Case Number. Starts at 0001 each year.
VEH_NO	Vehicle Number
PER_NO	Person Number
AGE	Age code
AGENAME	Age name text
SEX	Sex code
SEXNAME	Sex name text
PER_TYP	Person Type (role of person involved in crash) code
PER_TYPNAME	Person Type (role of person involved in crash) name text
INJ_SEV	Injury Severity code
INJ_SEVNAME	Injury Severity name text
SEAT_POS	Seating Position code
SEAT_POSNAME	Seating Position name text
REST_USE	Restraint System Use code
REST_USENAME	Restraint System Use name text
REST_MIS	Indication of Restraint System Misuse code
REST_MISNAME	Indication of Restraint System Misuse name text
AIR_BAG	Air Bag Deployed code
AIR_BAGNAME	Air Bag Deployed name text
EJECTION	Ejection code
EJECTIONNAME	Ejection name text
EJ_PATH	Ejection Path code
EJ_PATHNAME	Ejection Path name text
EXTRICAT	Extrication code
EXTRICATNAME	Extrication name text
DRINKING	Police Reported Alcohol Involvement code
DRINKINGNAME	Police Reported Alcohol Involvement name text
ALC_DET	Method of Alcohol Determination by Police code
ALC_DETNAME	Method of Alcohol Determination by Police name text
ALC_STATUS	Alcohol Test Status code
ALC_STATUSNAME	Alcohol Test Status name text
ATST_TYP	Alcohol Test Type code
ATST_TYPNAME	Alcohol Test Type name text
ALC_RES	Alcohol Test Result code
ALC_RESNAME	Alcohol Test Result name text

DRUGS	Police Reported Drug Involvement code
DRUGSNAME	Police Reported Drug Involvement name text
DRUG_DET	Method of Drug Determination by Police code
DRUG_DETNAME	Method of Drug Determination by Police name text
DSTATUS	Drug Test Status code
DSTATUSNAME	Drug Test Status name text
HOSPITAL	Transported to First Medical Facility By code
HOSPITALNAME	Transported to First Medical Facility By name text
DOA	Died at Scene/En Route code
DOANAME	Died at Scene/En Route name text
DEATH_DA	Day of Death code
DEATH_DANAME	Day of Death name text
DEATH_MO	Month of Death code
DEATH_MONAME	Month of Death name text
DEATH_YR	Year of Death code
DEATH_YRNAME	Year of Death name text
DEATH_HR	Hour of Death code
DEATH_HRNAME	Hour of Death name text
DEATH_MN	Minute of Death code
DEATH_MNNAME	Minute of Death name text
DEATH_TM	Death Time code
DEATH_TMNAME	Death Time name text
LAG_HRS	Lag Hours code
LAG_HRSNAME	Lag Hours name text
LAG_MINS	Lag Minutes code
LAG_MINSNAME	Lag Minutes name text
STR_VEH	Vehicle Number of Motor Vehicle striking non-motorist (applies only to non-occupants)
LOCATION	Non-Motorist Location at Time of Crash code
LOCATIONNAME	Non-Motorist Location at Time of Crash name text
WORK_INJ	Fatal Injury at Work code
WORK_INJNAME	Fatal Injury at Work name text
HISPANIC	Hispanic Origin code
HISPANICNAME	Hispanic Origin name text

Pedestrians and Bicyclists

Data Column	Meaning
YEAR	Year of Accident
STATE	State code
STATENAME	State name text
ST_CASE	Sequential number assigned to each case. Two characters for state code followed by four characters for a Case Number. Starts at 0001 each year.
PER_NO	Person Number
PBPTYPE	Person Type code
PBPTYPENAME	Person Type name text
PBAGE	Age code
PBAGENAME	Age name text
PBSEX	Sex code
PBSEXNAME	Sex name text
PBCWALK	Marked Crosswalk Present code
PBCWALKNAME	Marked Crosswalk Present name text
PBSWALK	Sidewalk Present code
PBSWALKNAME	Sidewalk Present name text
PBSZONE	School Zone code
PBSZONENAME	School Zone name text
PEDCTYPE	Crash Type – Pedestrian code
PEDCTYPENAME	Crash Type – Pedestrian name text
BIKECTYPE	Crash Type – Bicycle code
BIKECTYPENAME	Crash Type – Bicycle name text
PEDLOC	Crash Location – Pedestrian code
PEDLOCNAME	Crash Location – Pedestrian name text
BIKELOC	Crash Location – Bicycle code
BIKELOCNAME	Crash Location – Bicycle name text
PEDPOS	Pedestrian Position code
PEDPOSNAME	Pedestrian Position name text
BIKEPOS	Bicyclist Position code
BIKEPOSNAME	Bicyclist Position name text
PEDDIR	Pedestrian Initial Direction of Travel code
PEDDIRNAME	Pedestrian Initial Direction of Travel name text
BIKEDIR	Bicyclist Initial Direction of Travel code
BIKEDIRNAME	Bicyclist Initial Direction of Travel name text
MOTDIR	Motorist Initial Direction of Travel code
MOTDIRNAME	Motorist Initial Direction of Travel name text
MOTMAN	Motorist Maneuver code
MOTMANNAME	Motorist Maneuver name text
PEDLEG	Intersection Leg code

PEDLEGNAME	Intersection Leg name text
PEDSNR	Pedestrian Scenario code
PEDSNRNAME	Pedestrian Scenario name text
PEDCGP	Crash Group – Pedestrian code
PEDCGPNAME	Crash Group – Pedestrian name text
BIKECGP	Crash Group – Bicycle code
BIKECGPNAME	Crash Group – Bicycle name text

Driving Impairment

Data Column	Meaning
YEAR	Year of Accident
STATE	State code
STATENAME	State name text
ST_CASE	Sequential number assigned to each case. Two characters for state code followed by four characters for a Case Number. Starts at 0001 each year.
VEH_NO	Vehicle Number
DRDISTRACT	Driver Distracted By code
DRDISTRACTNAME	Driver Distracted By name text

Distracted Driving

Data Column	Meaning
YEAR	Year of Accident
STATE	State code
STATENAME	State name text
ST_CASE	Consecutive Number for state case. Two characters for state code followed by four characters for the Case Number
VEH_NO	Vehicle Number
DRIMPAIR	Condition (Impairment) at Time of Crash- Driver code
DRIMPAIRNAME	Condition (Impairment) at Time of Crash- Driver name text