# Analysis of Wildlife Strikes to Aircraft Practicum I CS5200

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#### Connect to database

```
# 1. Library
library("RMariaDB")
library("DBI")
# 2. Settings
db_user <- 'admin'
                              # use your value from the setup
db_user <- 'admin' # use your value from the setup
db_password <- 'wuzongyu' # use your value from the setup
db_name <- 'practicum1'</pre>
                                  # use your value from the setup
db_host <- 'cs5200.ceko8sdfannu.us-east-1.rds.amazonaws.com'
                                                                        # for aws
db_port <- 3306
# 3. Connect to remote server database
mydb.aws <- DBI::dbConnect(RMariaDB::MariaDB(), user = db_user, password = db_password,
                             dbname = db_name, host = db_host, port = db_port)
# 4. Knit setting
knitr::opts_chunk$set(connection = "mydb.aws", echo = FALSE, warning = FALSE, message = FALSE)
```

#### Test connection

#### Create schemas

```
## [1] 0
```

## [1] 0

## [1] 0

## [1] 0

## [1] 0

## [1] 0

## [1] 0

## [1] 0

## [1] 0

## [1] 0

## Load csv

##		rid	airc	raft					airpo	rt	model		iı	npact
##	1	202152	Airp	lane				LAGU	JARDIA	NY E	3-737-400	Engine	Shut	Down
##	2	208159	Airp	lane	DALLAS	/FOR	T WOR	TH I	NTL AR	PT.	MD-80			None
##	3	207601	Airp	lane			LAKEF	RONT	AIRPO	RT	C-500			None
##		fli	ight_	date	dama	age			airli	ne	origin	flight	_phase	е
##	1	11/23/2	2000	0:00	Dama	age		US	AIRWA	YS	New York		Clim	b
##	2	7/25/2	2001	0:00	Dama	age	AMERI	CAN	AIRLIN	ES	Texas	Landin	g Rol	1
##	3	9/14/2	2001	0:00	No dama	age			BUSINE	SS I	Louisiana	Ap	proacl	h
##		wildlif	fe_si	ze sl	ky_cond:	itio	ns pi	lot_	warned	_fla	ag altitu	de_ft h	eavy_:	flag
##	1		Medi	um	No	Clo	ud				N	1,500		Yes
##	2		Sma	11	Some	Clo	ud				Y	0		No
##	3		Sma	11	No	Clo	ud				N	50		No

# Import data

# Top Airports with Strikes

Table 1: Displaying records 1 - 10

State	NumberOfIncidents
California	2520
Texas	2453
Florida	2055
New York	1319
Illinois	1008
Pennsylvania	986
Missouri	960
Kentucky	812
Ohio	778
Hawaii	729

# Analysis by Airline

Table 2: Displaying records 1 - 10

airlineName	NumberOfIncidents
SOUTHWEST AIRLINES	4628
BUSINESS	3074
AMERICAN AIRLINES	2058
DELTA AIR LINES	1349
US AIRWAYS	1337
AMERICAN EAGLE AIRLINES	932
SKYWEST AIRLINES	891
JETBLUE AIRWAYS	708
UPS AIRLINES	590
UNITED AIRLINES	506

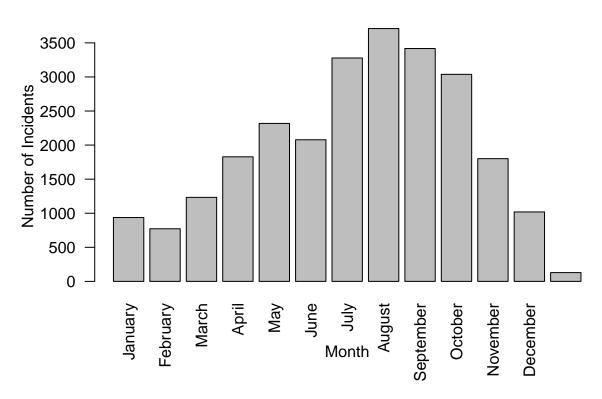
## Analysis by Month

## Month NumberOfIncidents

```
## 1
                              3710
        August
## 2 September
                              3417
## 3
                              3278
          July
## 4
       October
                              3038
## 5
           May
                              2318
## 6
          June
                              2078
```

## Trend by Month

#### HEHA DY MOHA



### Create stored procedure

```
## [1] 0
## [1] 0
## [1] 0
## [1] 0
      sid fid numbirds impact damage altitude conditions
## 1 1195 747
                        None
## [1] 1
## [1] sid
                  fid
                             numbirds
                                        impact
                                                   damage
                                                               altitude
                                                                          conditions
## <0 rows> (or 0-length row.names)
## auid modificationType tableName tablePK
                                                modificationTime
       1
                  Removal
                                        1195 2024-03-08 07:27:19
## 1
                             strikes
```

## Clean up