Analysis of Wildlife Strikes to Aircraft Practicum I CS5200

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Spring 2024

Database Connection

SQL Command to create the 'airports' Table

[1] 0

##SQL Command to create 'flight' table and link table with 'airports' table

[1] 0

Create 'conditions' Table

[1] 0

Create 'strikes' table, link 'conditions' and 'flights' to the 'strikes' table

[1] 0

Test Insertion into 'airports'

Test Insertion into 'flights' Table

Test Insertion into 'conditions' Table

Test Insertion into 'strikes' Table

Load Bird Strikes Data into DataFrame

Prepare Airports Data

Prepare Flights Data

Prepare Conditions Data

Prepare Strike Data

###POPULATE THE DATABASE TABLES

Populate the airport table

[1] TRUE

Getquery for airports table

Populate Flight Table

[1] TRUE

Query flights table

Populate 'conditions' table

[1] TRUE

Query for 'conditions' table

Populate 'strikes'

[1] TRUE

Query for 'strikes' table

Top Airports with Strikes

Analysis by Airline

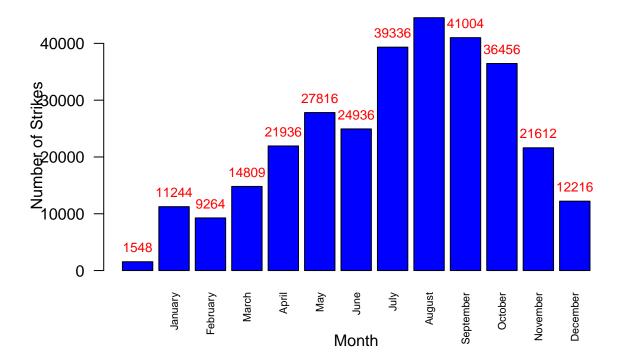
##		airlineName	NumberOfIncidents
##	1	SOUTHWEST AIRLINES	55536
##	2	BUSINESS	36888
##	3	AMERICAN AIRLINES	24696
##	4	DELTA AIR LINES	16188
##	5	US AIRWAYS	16044
##	6	AMERICAN EAGLE AIRLINES	11184
##	7	SKYWEST AIRLINES	10692
##	8	JETBLUE AIRWAYS	8496
##	9	UPS AIRLINES	7080
##	10	UNITED AIRLINES	6072
##	11	NORTHWEST AIRLINES	5496
##	12	FRONTIER AIRLINES	4992
##	13	AIRTRAN AIRWAYS	4968
##	14	PRIVATELY OWNED	4680
##	15	PINNACLE	4548
##	16	EXPRESSJET (CONTINENTAL EXPRS)	4416
##	17	CONTINENTAL AIRLINES	4140
##	18	ATLANTIC SOUTHEAST	4056
##	19	HAWAIIAN AIR	3984
##	20	COMAIR AIRLINES	3804
##	21	ALASKA ATRITNES	3648

##	22	FEDEX EXPRESS	3360
##	23	MESA AIRLINES	3108
##	24	AIR WISCONSIN AIRLINES	2748
##	25	MESABA AIRLINES	2652
##	26	UNKNOWN	2412
##	27	HORIZON AIR	2352
##	28	ABX AIR	2268
##	29	CHAUTAUQUA AIRLINES	2232
##	30	PSA AIRLINES	2184
##	31	GOVERNMENT	1908
##	32	GREAT LAKES AIRLINES	1896
##	33	AMERICA WEST AIRLINES	1884
##	34	SPIRIT AIRLINES	1680
##	35	ALOHA AIRLINES	1620
##	36	ISLAND AIR	1464
##	37	REPUBLIC AIRLINES	1440
##	38	ATLANTIC COAST AIRLINES	1380
##	39	PIEDMONT AIRLINES	1356
##	40	ALLEGIANT AIR	1284
##	41	AIR CANADA	1140
##	42	COMMUTAIR	1104
##	43	MILITARY	1068

Analysis by Month

##		Month	NumberOfStrikes
##	1	<na></na>	1548
##	2	January	11244
##	3	February	9264
##	4	March	14809
##	5	April	21936
##	6	May	27816

Wildlife Strikes by Month



[1] 0

[1] 0

[1] 0

[1] 1

##		log_id	${\tt modification_type}$	${\tt modified_table}$	modification_t	timestamp	record_id
##	1	1	Removal	strikes	2024-03-11	22:50:58	1
##	2	2	Removal	strikes	2024-03-13	02:27:51	1
##	3	3	Removal	strikes	2024-03-13	02:58:53	1
##	4	4	Removal	strikes	2024-03-13	03:04:37	1
##	5	5	Removal	strikes	2024-03-13	03:08:04	1
##	6	6	Removal	strikes	2024-03-13	03:11:40	1
##	7	7	Removal	strikes	2024-03-13	03:12:58	1
##	8	8	Removal	strikes	2024-03-14	03:46:05	1
##	9	9	Removal	strikes	2024-03-14	03:46:40	1