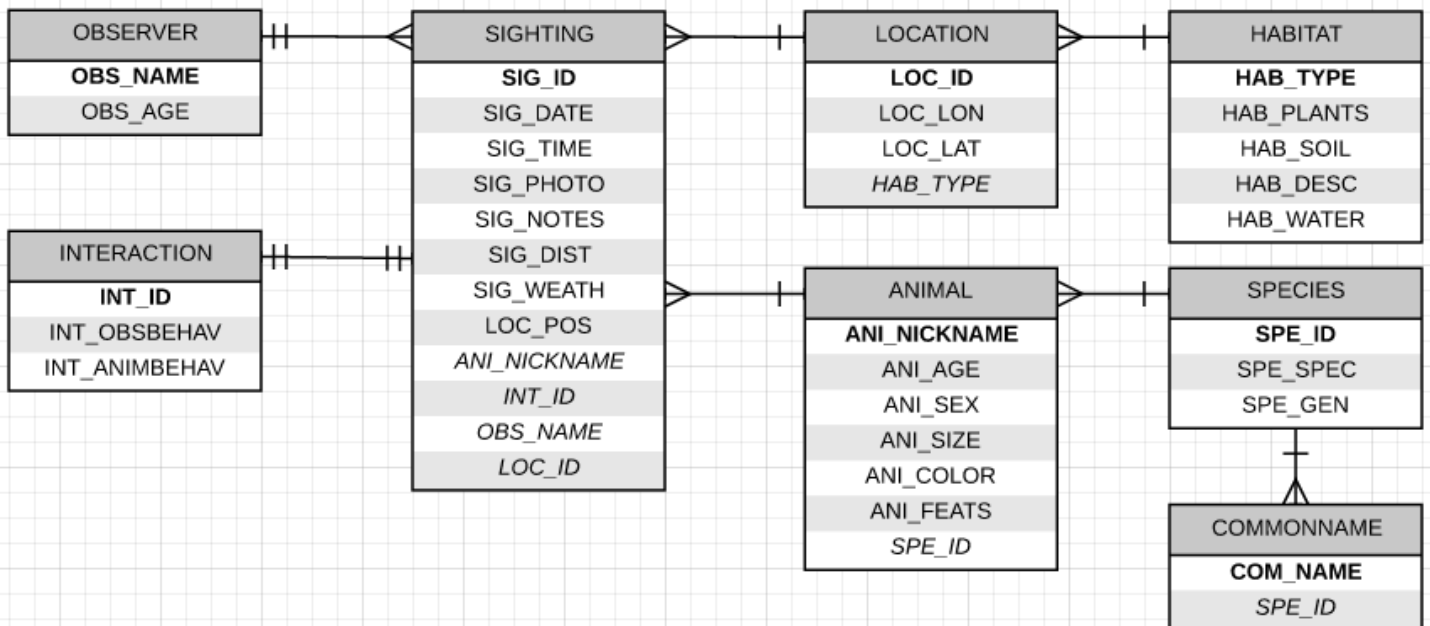


# LIBR 242, Group 3 "Garden of Wild Life" Database Design

14 March 2014



## OBSERVER

Attribute name	Contents	Type	Format	Range	Example	Required	PK/FK/SK
OBS_NAME	Unique alphanumeric ID for OBSERVER table	VARCHAR2(20)	XXXXXXXXXXXXXX		Mary	Y	PK
OBS_AGE	Observer's age	NUMBER(3)	999	001-115	13	N	SK

## SIGHTING

Attribute name	Contents	Type	Format	Range	Example	Required	PK/FK/SK
SIG_ID	Unique numeric ID for SIGHTING table	NUMBER(7,0)	9999999	SIG0001 - SIG9999		Y	PK
SIG_DATE	Sighting date	DATE	DD-MON-YY	15-JUN-14 to 31-AUG-14	7/2/2014	Y	SK
SIG_TIME	Sighting time	DATE	HH-MM		1/15/2014	Y	SK
SIG_PHOTO	Filename of photograph of animal	VARCHAR2(20)	XXXXXXXXXXXXXX		bunny002.jpg	N	SK
SIG_NOTES	Observer notes for sighting	VARCHAR2(300)	XXXXXXXXXXXXXX		One angry fox...	N	
SIG_DIST	Animal's distance from observer in feet	NUMBER(3)	999	000-566	6	N	SK
SIG_WEATH	Description of the weather during the SIGHTING	VARCHAR2(20)	XXXXXXXXXXXXXX		Raining	N	SK
SIG_POS	Description of ANIMAL's position within a LOCATION	VARCHAR2(300)	XXXXXXXXXXXXXX		Perched in tree	N	
ANI_NICKNAME	Unique alphanumeric ID for ANIMAL table	VARCHAR2(30)	XXXXXXXXXXXXXX		Lumpy Cat	Y	FK
INT_ID	Unique numeric ID for INTERACTION table	NUMBER(7,0)	9999999	INI0001 - INI9999		Y	FK
OBS_NAME	Unique alphanumeric ID for OBSERVER table	VARCHAR2(20)	XXXXXXXXXXXXXX		Mary	Y	FK
LOC_ID	Unique alphanumeric ID for 2 ft. x 2 ft. LOCATION plot (flag)	VARCHAR2(5)	999XX	001AA to 201HS		Y	FK

## INTERACTION

Attribute name	Contents	Type	Format	Range	Example	Required	PK/FK/SK
INT_ID	Unique numeric ID for INTERACTION table	NUMBER(7,0)	9999999	INI0001 - INI9999		Y	PK
INT_OBSBEHAV	Behavior initiated by observer	VARCHAR2(max)	XXXXXXXXXXXXXX		None	Y	
INT_ANIMBEHAV	Behavior between animals or initiated by animal	VARCHAR2(max)	XXXXXXXXXXXXXX		Eating a pine cone	Y	

## LOCATION

Attribute name	Contents	Type	Format	Range	Example	Required	PK/FK/SK
LOC_ID	Unique alphanumeric ID for 2 ft. x 2 ft. LOCATION plot (flag)	VARCHAR2(5)	999XX	001AA to 201HS		Y	PK
LOC_LAT	Exact location of ANIMAL (Latitude)	NUMBER(9,6)	999.999999	036.950000 to 037.160000		Y	SK
LOC_LON	Exact location of ANIMAL (Longitude)	NUMBER(9,6)	999.999999	-121.800000 to -122.300000		Y	SK
HAB_TYPE	Classified habitat type (predefined for each plot)	VARCHAR2(20)	XXXXXXXXXXXXXX		redwood forest	Y	FK

## HABITAT

Attribute name	Contents	Type	Format	Range	Example	Required	PK/FK/SK
HAB_TYPE	Classified habitat type (predefined for each plot)	VARCHAR2(20)	XXXXXXXXXXXXXX		redwood forest	Y	PK
HAB_PLANTS	Plants typically found within this habitat type	VARCHAR2(300)	XXXXXXXXXXXXXX		douglas fir, manzanita...	Y	SK
HAB_SOIL	Soil typically found within this habitat type	VARCHAR2(50)	XXXXXXXXXXXXXX		clay	Y	SK
HAB_DESC	Description of habitat type	VARCHAR2(max)	XXXXXXXXXXXXXX		Found only in CA...	Y	
HAB_WATER	Water found within the habitat	VARCHAR2(50)	XXXXXXXXXXXXXX		Many small puddles	N	SK

**ANIMAL**

Attribute name	Contents	Type	Format	Range	Example	Required	PK/FK/SK
ANI_NICKNAME	Unique alphanumeric ID for ANIMAL table	VARCHAR2(30)	XXXXXXXXXXXXXX		Lumpy Cat	Y	PK
ANI_AGE	Animal's estimated age	VARCHAR2(7)	XXXXXXXXXXXXXX	baby/ youth/ adult/ elderly/ unknown		N	SK
ANI_SEX	Animal's estimated sex	VARCHAR2(7)	XXXXXXXXXXXXXX	male/ female/ unknown		N	SK
ANI_SIZE	Animal's estimated size	VARCHAR2(9)	XXXXXXXXXXXXXX	<1 lb/ 1-2 lbs/ 2-5 lbs/ 5-10 lbs/ 10-20 lbs/ 20-40 lbs/ >40 lbs		N	SK
ANI_COLOR	Animal's coloring	VARCHAR2(300)	XXXXXXXXXXXXXX		Brown stripes	N	
ANI_FEATS	Animal's unique features	VARCHAR2(300)	XXXXXXXXXXXXXX		Broken tail feather	N	
SPE_ID	Unique alphanumeric ID for SPECIES table	VARCHAR2(7)	XXX9999	SPE0001 - SPE9999		Y	FK

**SPECIES**

Attribute name	Contents	Type	Format	Range	Example	Required	PK/FK/SK
SPE_ID	Unique alphanumeric ID for SPECIES table	NUMBER(7,0)	9999999	SPE0001 - SPE9999		Y	PK
SPE_SPEC	Latin species name	VARCHAR2(55)	XXXXXXXXXX		catus	Y	SK
SPE_GENUS	Latin genus name	VARCHAR2(55)	XXXXXXXXXX		felis	Y	SK

**COMMON NAME**

Attribute name	Contents	Type	Format	Range	Example	Required	PK/FK/SK
COM_NAME	English common name	VARCHAR2(55)	XXXXXXXXXX		house cat	Y	PK
SPE_ID	Unique alphanumeric ID for SPECIES table	NUMBER(7,0)	9999999	SPE0001 - SPE9999		Y	FK