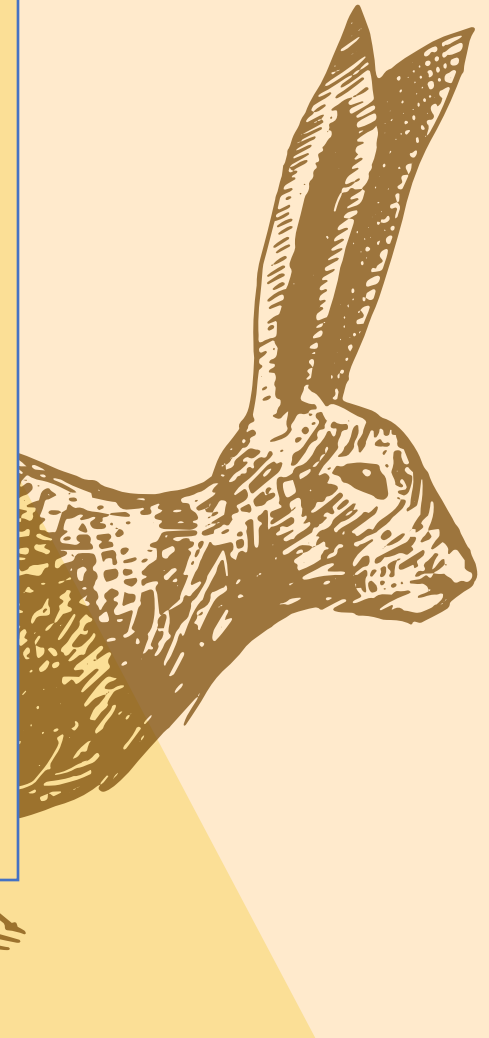# DATABASE DESIGN FOR A ZOO

By Rudolph Stephen, Hadi Akbar, Christian Dennis, Prabhas Dhulam

INTRODUCTION

~Project focus: Organizing the data in the zoo

~Primary purpose of designing database

~Get the schedule for the Keepers

~Track on the visitors

~Locate the keepers on their schedule locations

~Sending thank you note to visitors

~Many other minor and major queries of the zoo management

Zoo Database

~Planning of the collections of tuples (Curino, Michael n.d.);

~State (StateID, City, ZipCode,

~Zoo (ZooID, ZooName, ZooDesc)

~ZooVisitor (ZooVisitorID,
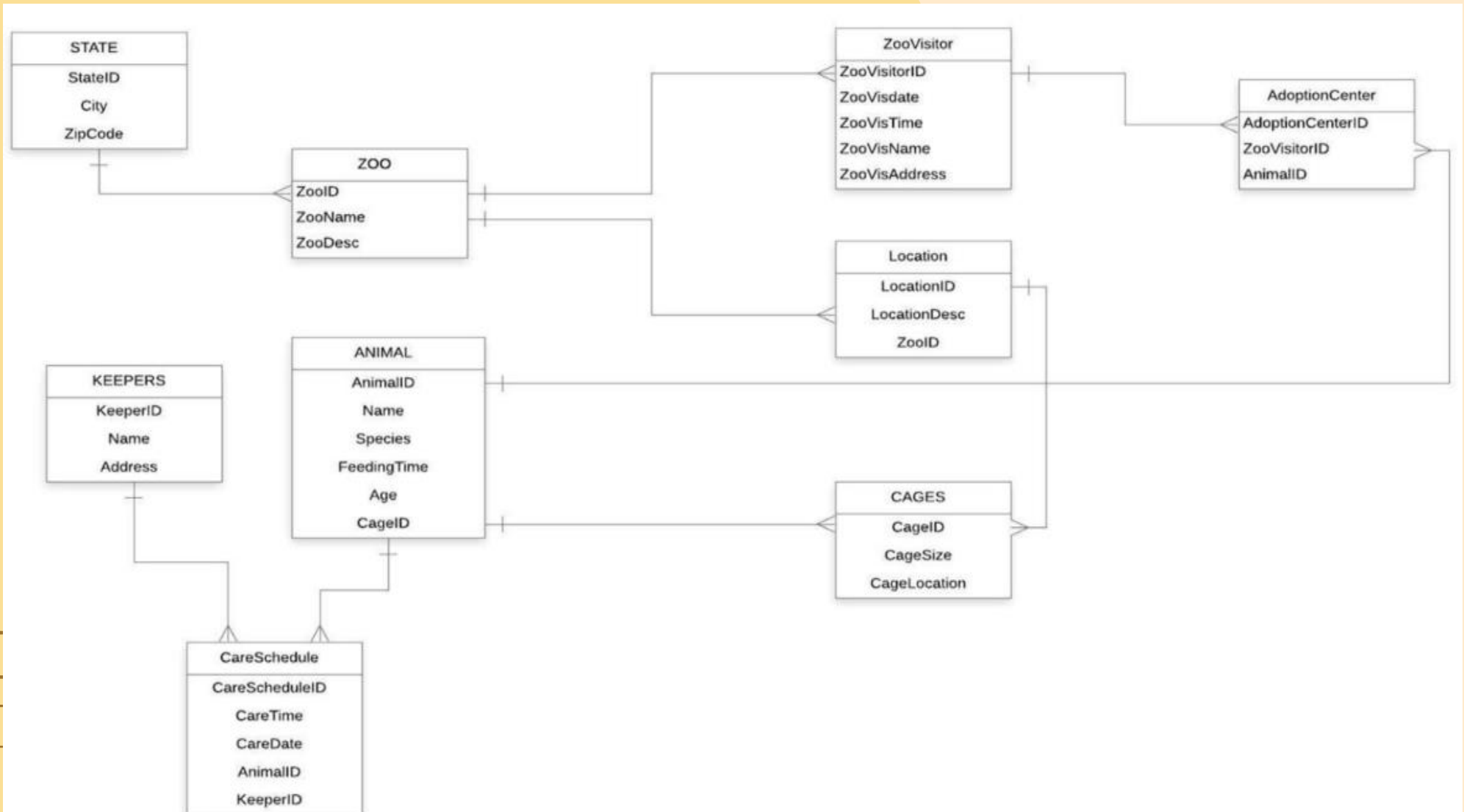
~ZooVisdate, ZooVisTime,

~ZooVisName, ZooVisAddress)

Zoo Database continue...

~Animals (AnimalID, species, age, CageID)
~Cages (Cageid, Cagesize, CageLocation)
~Keepers (Keeperid, Name, Address)
~CareSchedule (CareScheduleID, CareTime, CareDate, AnimalID, KeeperID)
~AdoptionCenter (AdoptionCenterID, ZooVisitorID, AnimalID)

Entity Relation Diagram of the Zoo

DISPLAY NAMES OF THE ANIMAL SPECIES, CARE TIME AND KEEPER NAME

SELECT DISTINCT a.AnimalSpecies, cs.CareTime, c.CareLocation, k.KeeperName

FROM prjct_animal a, prjct_careSchedule cs, prjct_cages c, prjct_keepers k

WHERE a.AnimalID = cs.AnimalID and cs.AnimalID = c.AnimalID and cs.keeperID=k.keeperID

AnimalSpecies	CareTime	CareLocation	KeeperName
Black Bulls	5:00AM	NW204	Aia MU
Livestock	4:00AM	NW205	Zia Qi
Puerto rican parrot	6:00AM	NW206	Sia Ty
Alligators	7:00AM	NW207	Dia Si
Pythonidae	8:00AM	NW208	Hia Ru
Australian sea lion	9:00AM	NW209	Kia Qi
Chinese alligators	2:00AM	NW210	Wia Ci
Monotremes	12:00AM	NW211	Qia Yu
Monotremes	11:00AM	NW211	Qia Yu

DISPLAY ANIMAL SPECIES WITH KEEPER NAME AND THEIR CARE YEAR

SELECT distinct
k.KeeperName,
a.AnimalSpecies,
YEAR(c.CareDate) AS
careYear

From prjct_careSchedule c,
prjct_keepers k, prjct_animal
a

WHERE a.AnimalID=
c.AnimalID
and c.keeperID = k.keeperID;

KeeperName	AnimalSpecies	careYear
Sia Ty	Puerto rican parrot	2011
Sia Ty	Puerto rican parrot	2012
Sia Ty	Puerto rican parrot	2013
Sia Ty	Puerto rican parrot	2014
Sia Ty	Puerto rican parrot	2015
Sia Ty	Puerto rican parrot	2016
Sia Ty	Puerto rican parrot	2017
Sia Ty	Puerto rican parrot	2018
Sia Ty	Puerto rican parrot	2019
Sia Ty	Puerto rican parrot	2008
Dia Si	Alligators	2020
Dia Si	Alligators	2000
Dia Si	Alligators	2001
Dia Si	Alligators	2002
Dia Si	Alligators	2003
Dia Si	Alligators	2004
Dia Si	Alligators	2005

Revision

We decided to update our presentation by making it a bit smaller and easier to read and adding some graphical components to make it aesthetically more pleasing as compared to the presentation we gave in the class on 9th April.

Therefore, we'd like to thank you for your patience.

Thank you!