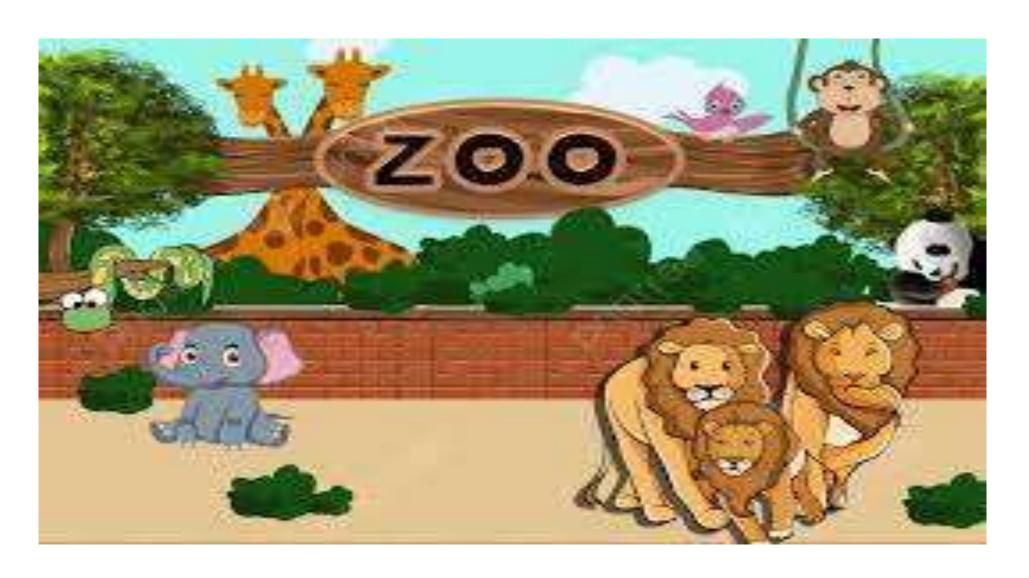
A.V. DEEKSHASHREE



INTRODUCTION

- Project Focus: Organizing the Data in the Zoo
- Primary Purpose of Design the Database
 - Get the Schedule for the Keepers
 - **Track on the Visitors**
 - **Sending Thank You Note to Visitors**
 - Many other Minor and Major Queries of the Zoo Management

Create Database Zoo



Create Tables within the Zoo Database

```
//Table for Animals//
CREATE TABLE Animals (
Animal ID INT PRIMARY KEY,
Animal Name VARCHAR(100),
Species VARCHAR(100),
Age INT,
Care Time TIME);
//Table for Keepers//
CREATE TABLE Keepers (
Keeper ID INT PRIMARY KEY,
Keeper Name VARCHAR(100),
Contact Number VARCHAR(20),
Salary DECIMAL(10, 2),
Hire Date DATE);
```

```
//Table for Enclosure//
CREATE TABLE Enclosures (
Enclosure_ID INT PRIMARY KEY,
Enclosure_Name VARCHAR(100),
Capacity INT);
```

```
//Table for Visitors//
CREATE TABLE VISITORS(
Visitor_ID INT PRIMARY KEY,
Visitor_Name VARCHAR(50),
Contact_Number VARCHAR(20));
```

Inserting the Values into Tables

```
    INSERT INTO Animals (Animal ID, Animal Name, Species, Age, Care Time)

 VALUES (1, 'Lion', 'Simba', 8, '06:00:25'),
         (2, 'Elephant', 'Ellie', 10, '07:10:56');

    INSERT INTO Enclosures (Enclosure ID, Enclosure Name, Capacity)

  VALUES (1, 'Lion Enclosure', 10),
          (2, 'Elephant Enclosure', 5);

    INSERT INTO keepers (Keeper ID, Keeper Name, Contact Number, Salary, Hire Date)

  VALUES (1, 'John Doe', '9876547898', 5000, '2021-01-12'),
          (2, 'Jane Smith', '8889765465', 6000, '2021-01-17');

    INSERT INTO Visitors (Visitor_ID, Visitor_Name, Contact_Number)

  VALUES (101, 'Dhanush', '8976765556'),
          (102, 'Sandhya', '9764387657');
```

Altering the Animals Table to Add a New Column

ALTER TABLE Animals ADD COLUMN Gender VARCHAR(10);

Animal_ID	Animal_Name	Species	Age	Care_Time	Gender
1	Lion	Simba	8	06:00:25	Female
2	Elephant	Ellie	10	07:10:56	Male

Delete the Specific Visitor Record by Visitor ID

DELETE FROM Visitors WHERE Visitor_ID = 101;

Visitor_ID	Visitor_Name	Contact_Number
102	Sandhya	9764387657

Update the Capacity of an Enclosure

UPDATE Enclosures SET Capacity =4 WHERE Enclosure_ID = 2;

Enclosure_ID	Enclosure_Name	Capacity
1	Lion Enclosure	10
2	Elephant Enclosure	4

Calculate Age of the Animals in the Zoo

SELECT Animal_Name, DATE_DIFF(CURRENT_DATE(), Birth_Date, Year) AS Age FROM Animals;

Animal_Name	Age
Lion	15
Elephant	12

Animals Need Feeding after 6 AM

SELECT Animal_Name, Care_Time FROM Animals WHERE Animal_ID IN (SELECT Animal_ID FROM AnimalFeeding WHERE Feeding_Time> '06:00:00');

Animal_ID	Animal_Name	Care Time
1	Lion	6:00:25
2	Elephant	7:10:56

Display Visitors Whose Name Starts with "S" or "P"

SELECT * FROM Visitors WHERE Visitor_Name LIKE 'S%' OR Visitor_Name LIKE 'P%';

Visitor_ID	Visitor_Name	Contact_Number
102	Sandhya	9764387657

Animal Species that have an Average Age Greater than or Equal to 5 Years

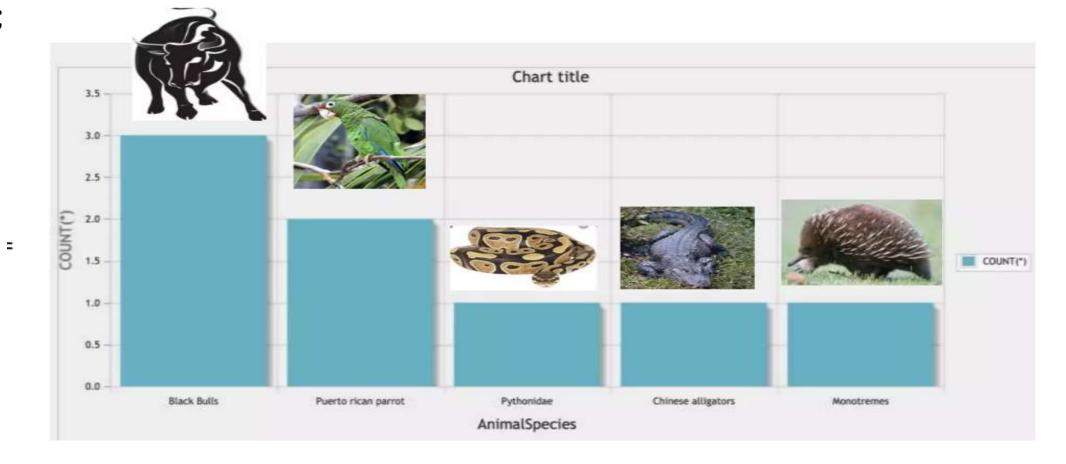
SELECT Species, AVG(Age) AS Avg_Age FROM Animals GROUP BY Species HAVING AVG(Age) >= 5;

Species	Avg_Age
Simba	8
Ellie	10

Which Animal is Popular for Adoption

SELECT Species FROM Adoption ORDER BY Adoption_Count DESC

LIMIT 1;



Details of Visitors who have Purchased Tickets

SELECT Visitors.Visitor_ID, Visitors.Visitor_Name, Tickets.Ticket_ID
FROM Visitors JOIN Tickets ON Visitors.Visitor_ID = Tickets.Visitor_ID;

Visitor_ID	Name	Ticket_ID
1	John	101
2	Emily	102
3	Robert	103
4	Sarah	104

Animals Housed in Enclosures with a Capacity Greater than the Average Capacity of all Enclosure

SELECT Animal_Name FROM Animals WHERE Enclosure_ID IN (SELECT Enclosure_ID FROM Enclosures WHERE Capacity > (SELECT AVG (Capacity) FROM Enclosures));

Animal_Name
Lion
Elephant

Update All Visitors with a "Thank You" Message

```
UPDATE Visitors SET Thank_You_Message = 'Thank You,
(Visitor_Name), for Visiting our Zoo!'
```

THANK YOU