DBMS - Mini Project Zoo Management System



Submitted By:

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Short Description and Scope of the Project

My project name is "Zoo Management System". My goal is to show a very initial overview of a zoo and how it is managed centrally by using database management system.

My idea can be divided into four parts which represents my whole database shortly. These parts hold the data of every possible field in the zoo management system.

Firstly

Animal Details, we can have the proper datails about animal_id, animal_name, cage_num, gender, height, weight, age, diet, status.

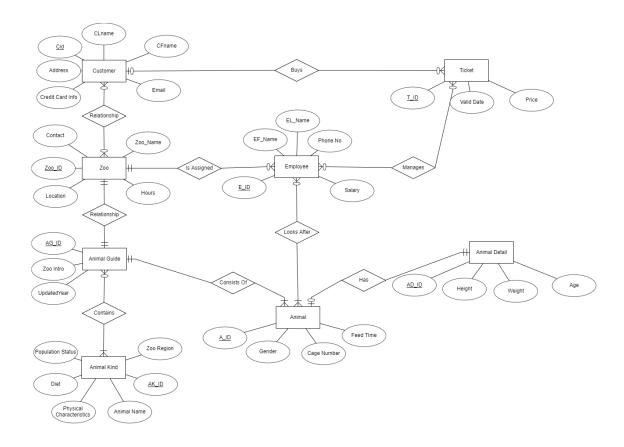
Staff field is used to store all the valid datas of the staff i.e emp_id, emp_name, emp_des, phone_num, salary.

<u>Ticket Field</u> is used to store the ticket details such as ticket_id, order_date, price, age.

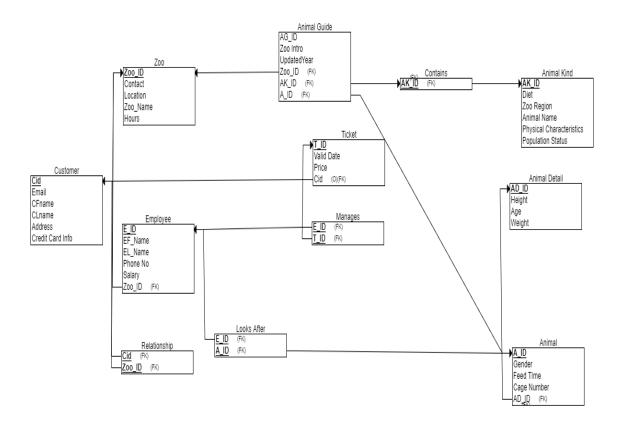
A zoo is incomplete without <u>Customers</u>. From <u>Customers</u> zoo gets it's partial profits. Visitors access all the facilities of the zoo through the column coupon and ticket. We obtain he customer details

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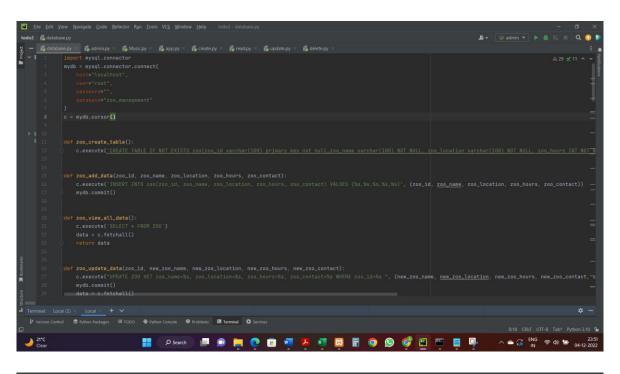
ER Diagram

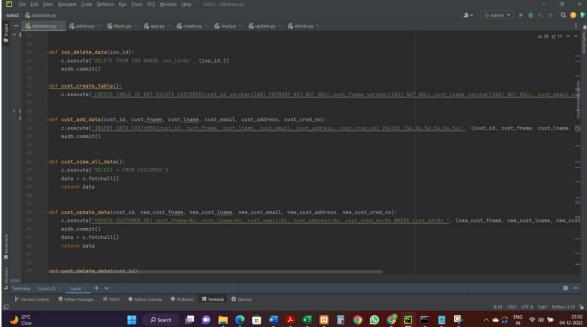


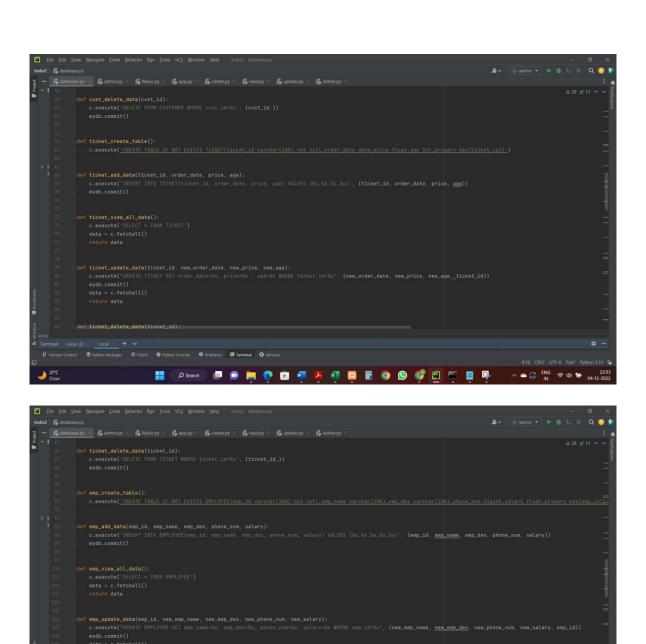
Relational Schema



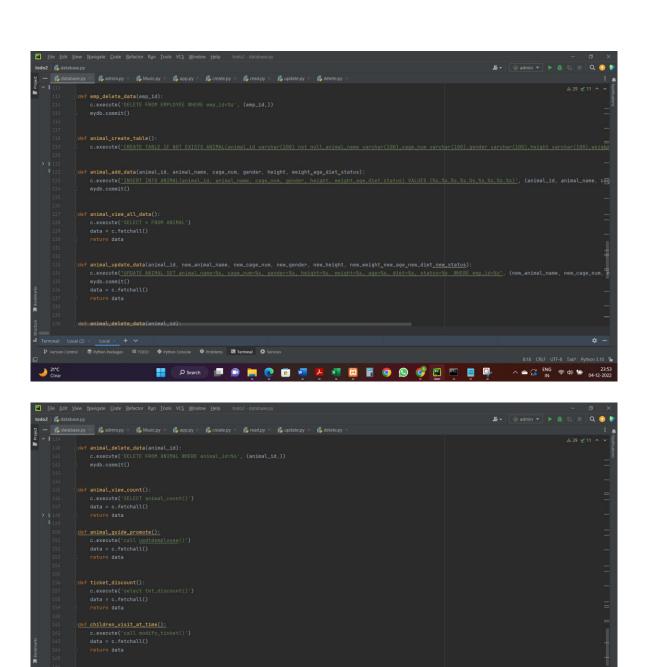
<u>DDL statements - Building the database and populating the database</u>







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Terminal: Local (2) × Local × + ▼

P Version Control

P Symon Packages III TODO

P Symon Console

P Problems III Terminal

O Services

Join Queries

Showcase at least 4 join queries

Write the query in English Language, Show the equivalent SQL statement and also a screenshot of the query and the results

Question 1: Which animals are terristerial and herbivore

SELECT l.animal_id,life_duration,class,Age FROM animal_details d JOIN animal_life I ON (d.a_name = l.a_name) and d.food_type ="Herbivore" and l.Animal_type = "Terrestrial";

Question 2: Which vet gives a treatment to sick animal and show his details

SELECT r.cage_no, r.record_details , v.vet_name, v.speciality,v.veternity_experience,s.job_type, s.shifting_time . s.date_of_joining,s.job_duration FROM record r JOIN staff_details s ON r.staff_id = s.staff_id JOIN vet_details v ON s.staff_id = v.staff_id;

Question 3: Show the total cost of cage where reptile animals lived.

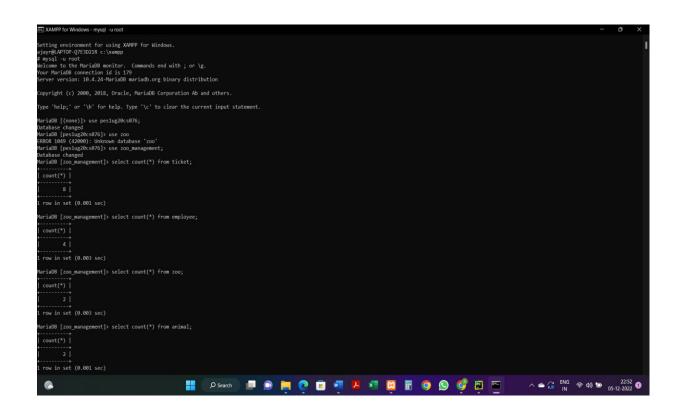
SELECT a.cage_no, sum(SERVICE_CHARGE)+(MEDICINE_COST)+(CLEANING_COST)+FOOD_COST "Total cost" FROM animal_details a JOIN expense e ON (a.cage_no = e.cage_no) and a.class = "reptile";

Question 4: HAVING ALL INFO OF THE CAGES BY JOINING TWO TABLES SELECT

cage_no,animal_details.a_name,animal_name,gender,food_type,life_duration, age,Birth_year FROM animal_details RIGHT outer JOIN animal_life ON animal_details.a_name = animal_life.a_name;

Aggregate Functions

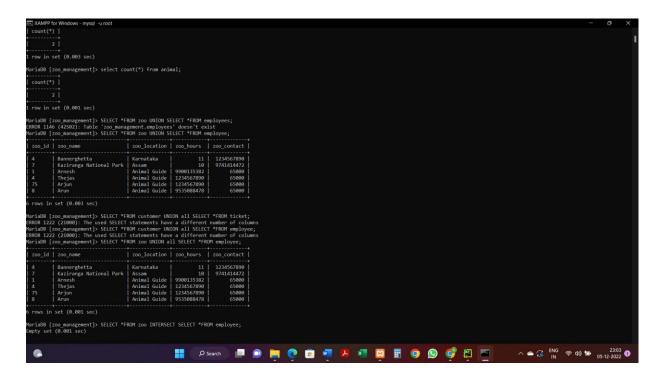
Showcase at least 4 Aggregate function queries Write the query in English Language, Show the equivalent SQL statement and also a screenshot of the query and the results



Set Operations

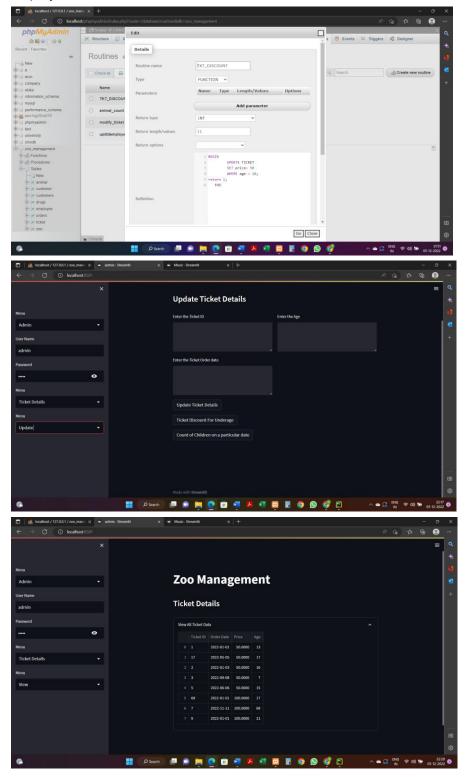
Showcase at least 4 Set Operations queries

Write the query in English Language, Show the equivalent SQL statement and also a screenshot of the query and the results

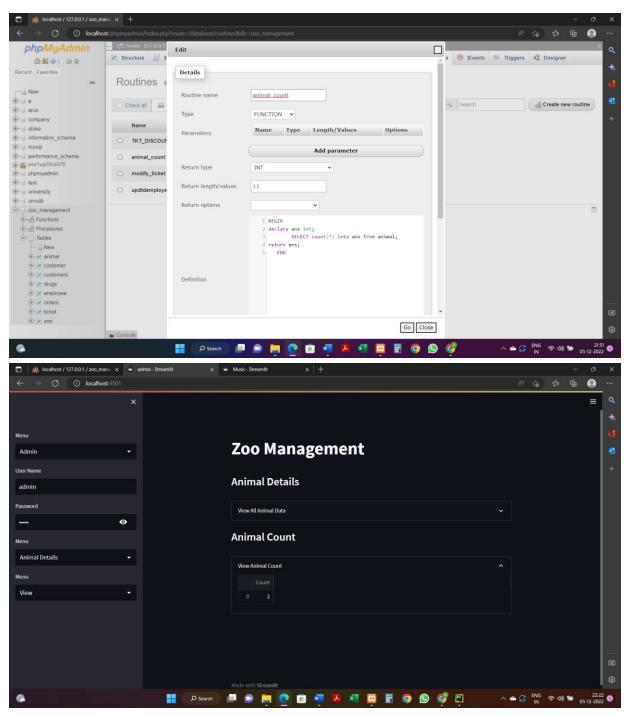


Functions

Create a Function and Procedure. State the objective of the function / Procedure. Run and display the results.

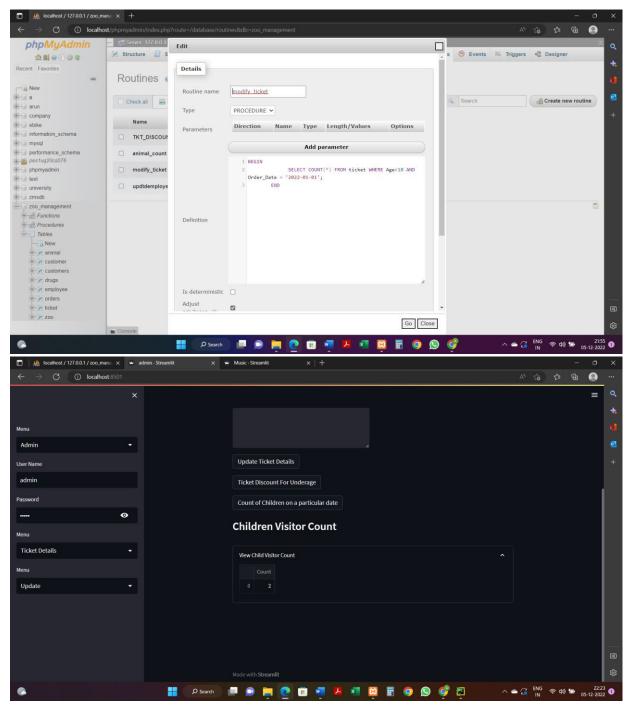


TKT DISCOUNT offers discount of 50 rupees for children visitors.

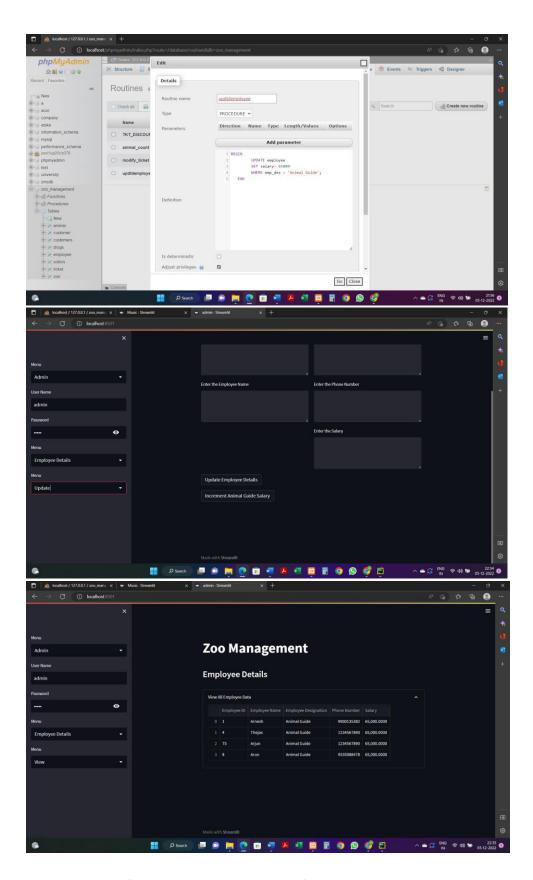


Animal count shows the count of animals in the animal table

Procedures



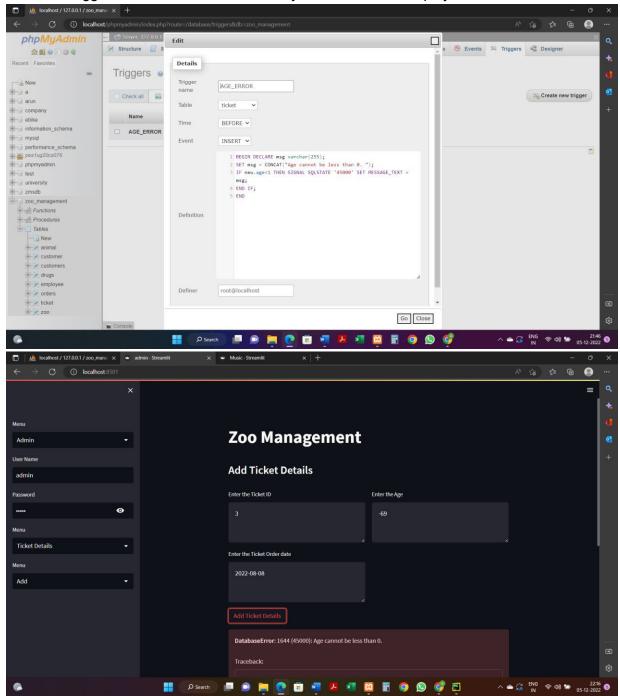
Shows count of child visitors at a particular date.



Updates Salary of animal guides on the click of a button

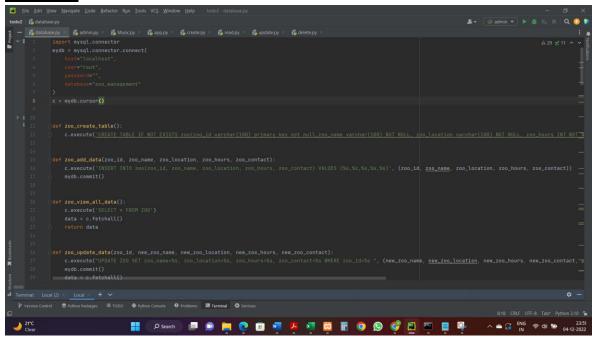
Triggers

Create a Trigger and a Cursor. State the objective. Run and display the results.



AGE_ERROR Trigger prevents users to put unrealistic age of 0 and below while filling the ticket details.

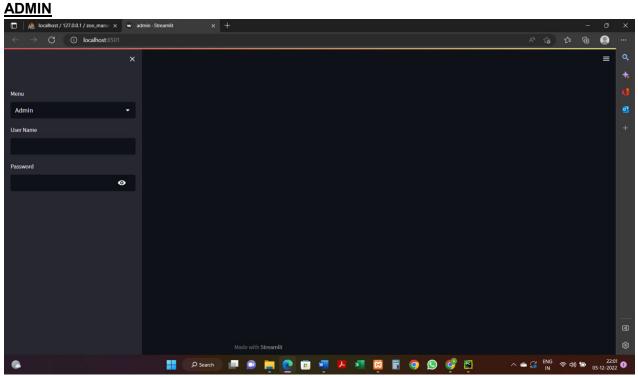
CURSORS



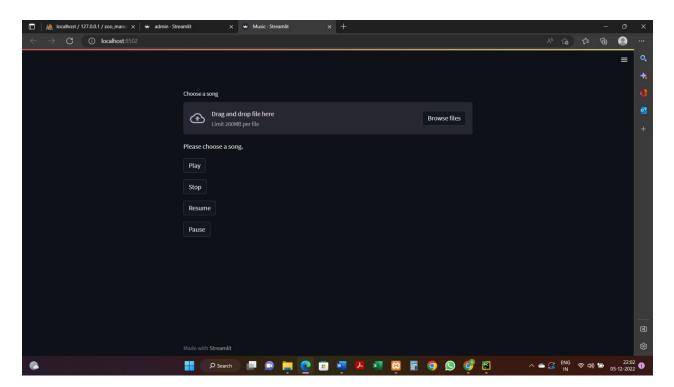
Developing a Frontend

The frontend should support

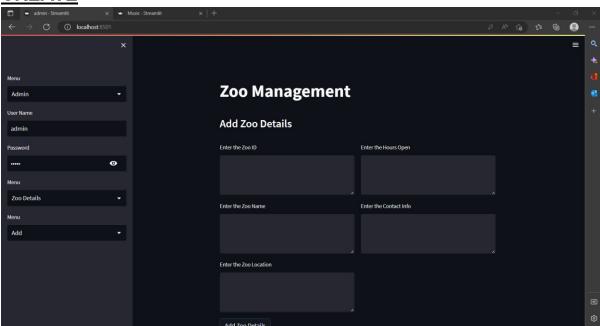
- 1. Addition, Modification and Deletion of records from any chosen table
- 2. There should be an window to accept and run any SQL statement and display the result



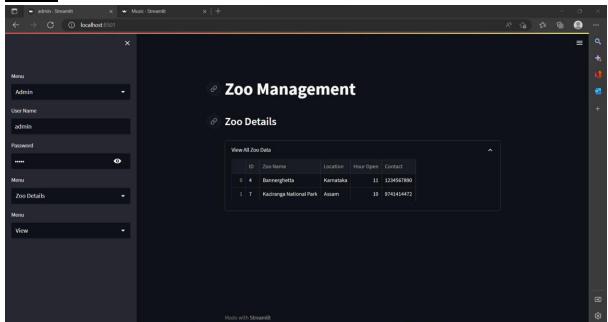
MUSIC



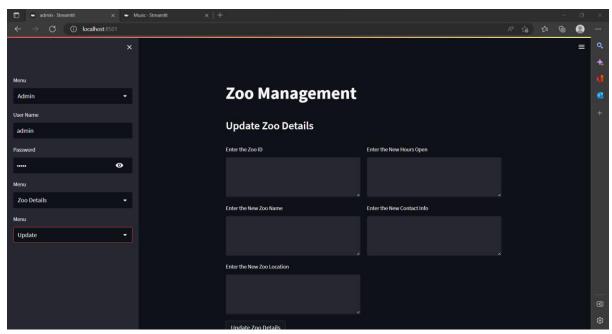
CREATE



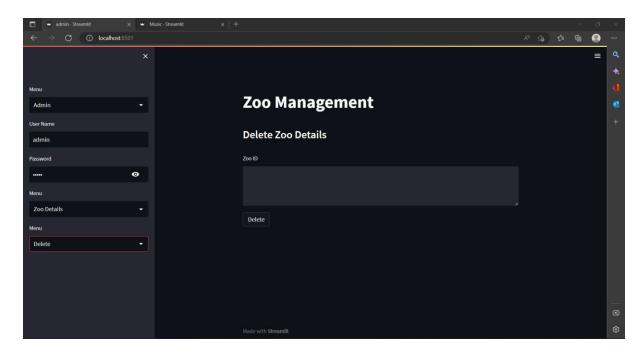
READ



UPDATE



DELETE



QUERY

