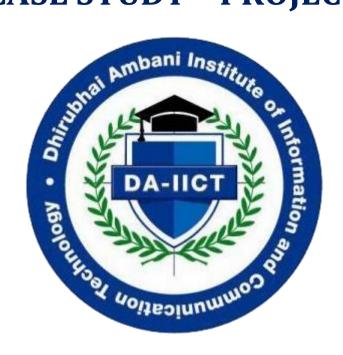
# DATABASE MANAGEMENT SYSTEM CASE STUDY – PROJECT



## Group - 9

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### **ZOO AND WILDLIFE DATA**

Create a database for a system that includes information on the number of national parks, zoos, and other animal sanctuaries across the nation and in each individual state. It should keep tabs on all the creatures that are present in the parks, sanctuaries, zoos, and other places mentioned above. The system should also include details on each animal, such as its species, the number of that animal in all of India, the region or state where it is found, its average lifetime, etc. The information about extinct species that were formerly present in India should be specifically recorded in the database. Additionally, it ought to keep tabs on the money, materials, and major areas of expenditure for each wildlife home. It ought to also be able to maintain detailed records about any kind of illness or medical help required by the animals. Migration of animals between different sanctuaries should also be recorded along with the proper reasons. Incorporate all the other necessary details for a valid wildlife database.

## **RELATIONAL MODEL**

country (c\_id, name, total\_z, total\_np, total\_ws)

state (s\_id, name, total\_z, total\_np, total\_ws, c\_id)

zoo (z\_id, name, s\_id, area\_covered)

national\_park (np\_id, name, s\_id, area\_covered)

wildlife\_sanctuary (ws\_id, name, s\_id, area\_covered)

place (place\_id)

animal (animal\_id, name, avg\_lifespan, animal\_description)

animal\_list (animal\_id, place\_id, current\_no, past\_no)

extinct\_animal (animal\_id, c\_id, total\_count)

tourist (place\_id, visit\_no, ratings, animal\_id)

photography\_place (place\_id, animal\_id)

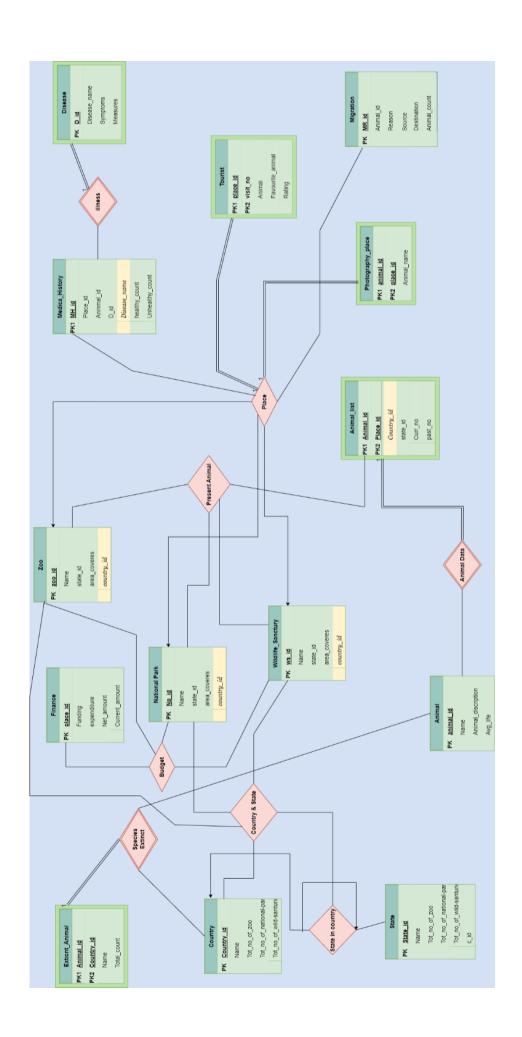
disease (d\_id, disease\_name, symptoms, measures)

medical\_history (mh\_id, animal\_id, place\_id, unhealthy\_count, healthy\_count, d\_id)

migration\_record (mr\_id, source\_id, destination\_id, animal\_id, animal\_count, reason)

finance (place\_id, funding, expenditure, current\_amount, net\_amount)

# **E-R DIAGRAM**



# **SQL-Queries**

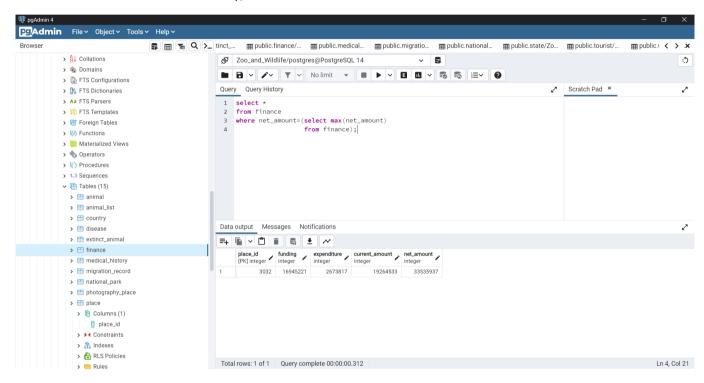
#### Q.1] print finance record who has max net\_amount.

select \*

from finance

where net amount = (select max(net amount)

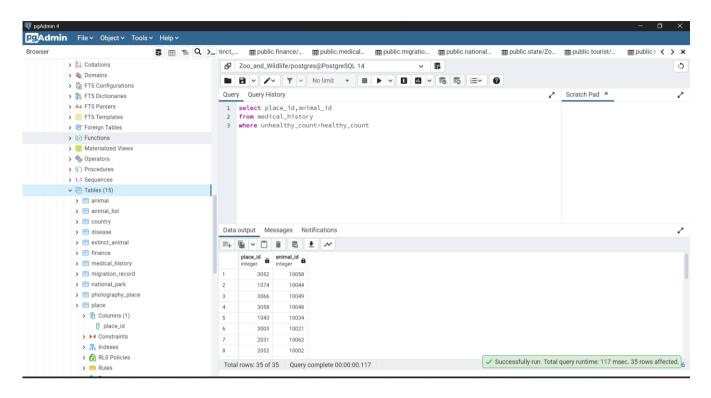
from finance);



#### Q.2] print place and animal where there are more unhealthy animal than healthy animal

Select place id, animal id

From medical\_historyWhere unhealthy\_count > healthy\_count



#### Q.3] print animal which are found in zoo as well as in national park

select distinct animal\_id

from animal\_list as a

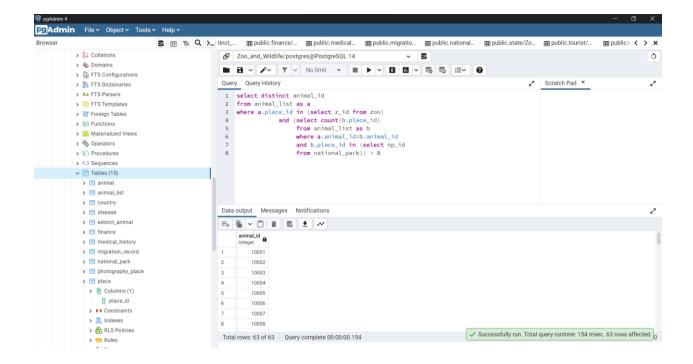
where a.place\_id in (select z\_id from zoo)

and (select count(b.place id)

from animal list as b

where a.animal id=b.animal id

and b.place id in (select np id from national park)) > 0



Q.4] find the migration record of the animal who is migrated in from the national park to the zoo and the also the animal count is greater than 10 and expenditure of the zoo is greater than 5437121.

select \*

from migration record

where source id in (select np id from national park)

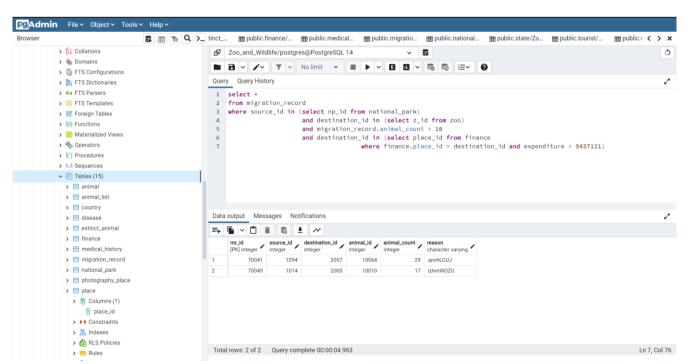
and destination id in (select z id from zoo)

and migration record.animal count > 10

and destination id in (select place id from finance

where finance.place id = destination id and expenditure >

#### 5437121)



# Q.5] Find the animal and the disease of that where the animal should in the wildlife santury as well as in the national park, with the funding greater than 8906431.

select distinct animal\_id, d\_id, disease\_name from medical\_history natural join disease natural join animal\_list as x natural join finance

where place id in (select ws id from wildlife sanctuary)

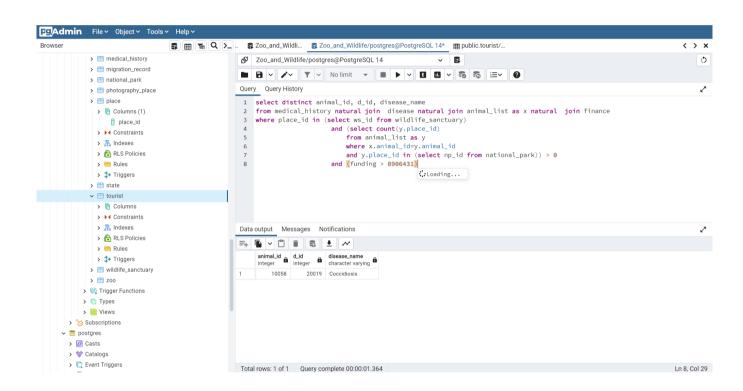
and (select count(y.place\_id)

from animal\_list as y

where x.animal\_id=y.animal\_id

and y.place\_id in (select np\_id from national\_park)) > 0

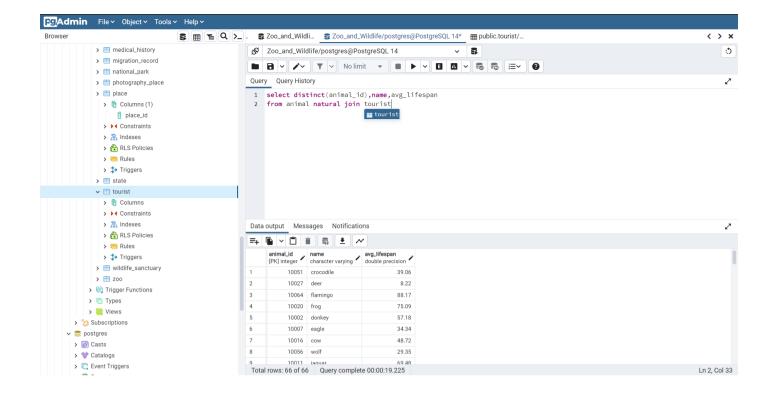
and (funding > 8906431)



#### Q.6] print animal name, avg\_lifespan where animal is liked by tourist

select distinct(animal\_id),name,avg\_lifespan

from animal natural join tourist



## **Thank You**