Group Members

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Title: Forest Management Database

Scope of Database:

We plan to record entities like Sanctuaries, Animals, Tourism, Forest Fires, Wood Supply, Biodiversity, Zonal Offices etc and the relationships between them such as How many rare animals in given forest, what is the wood supply from forests in given country, Which forest are more prone to get burnt etc.

Description:

There are plenty of forests around the world, with different diversities and areas in different countries. Various types are sanctuaries, National Parks and also Tropical Forests, Rain Forests etc.

For each forest we can store its area, location, biodiversity index, revenues, type of forest, Harvesting Capacity, Types of Animals and Plants, density of trees per area, Vegetation index, zonal head offices.

For Trees we can record rarity, medicines, vegetation.

For Animals we can record counts(male/female), rarity, deceases, Most Likely to be hunted, lifespan, death rate, increase/decrease per year.

For Forest Fires we can record history of fire happening per year, area burnt in fire, probability of burning in near future (depending upon locals or outside interference)

Sanctuaries are the most important forests. We can record Tourism Reports, Species, Useful plants, Area.

Each country has zonal head quarters for almost every forest we can record data about zonal officers, contact, post, category(rank).

Sample Queries:

1. Total number of tigers in Sundarbans.

2. The country having highest amount of total forest revenues.

3. Top 5 rare animal species found in India.

4. Which forest has the least biodiversity index.

5. Biggest 3 sanctuaries in U.S.A.

6. Where are the sanctuaries for bears around the world.

7. Top 10 most favourite the animal species (according to number of visitors of the sanctuaries).

8. Give contacts of zonal offices of the forests which have vegetation index above 0.5 and is not declared sanctuary yet having rarity =" extinct" in its at least half of the species of animals and most burning history.

9. Give name of two sanctuaries having same species which are having same rarity level and should it should be transferred from one to second sanctuary to increase poplutation.

10. Which are the sanctuaries in which every year tigers are increasing per year.