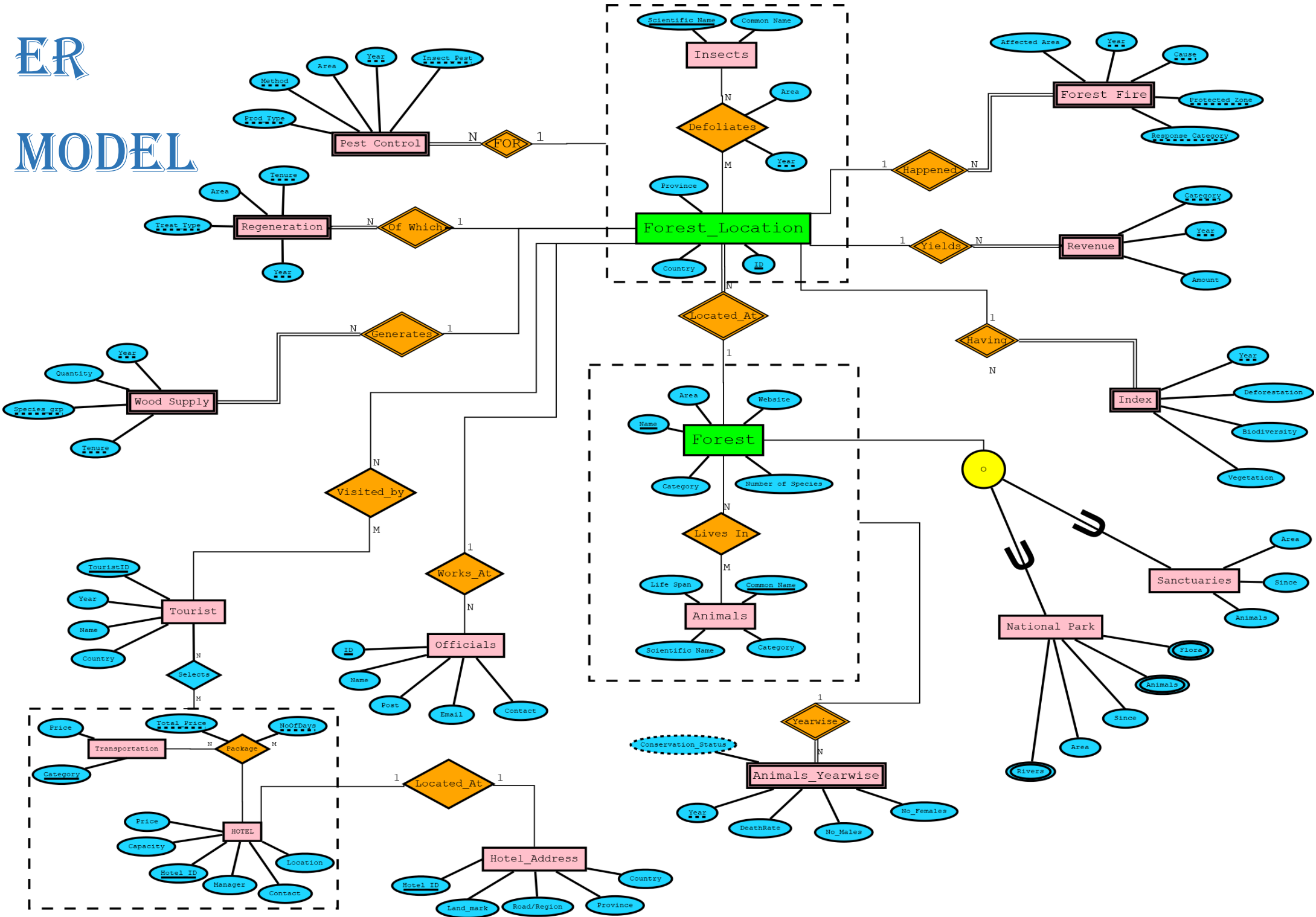
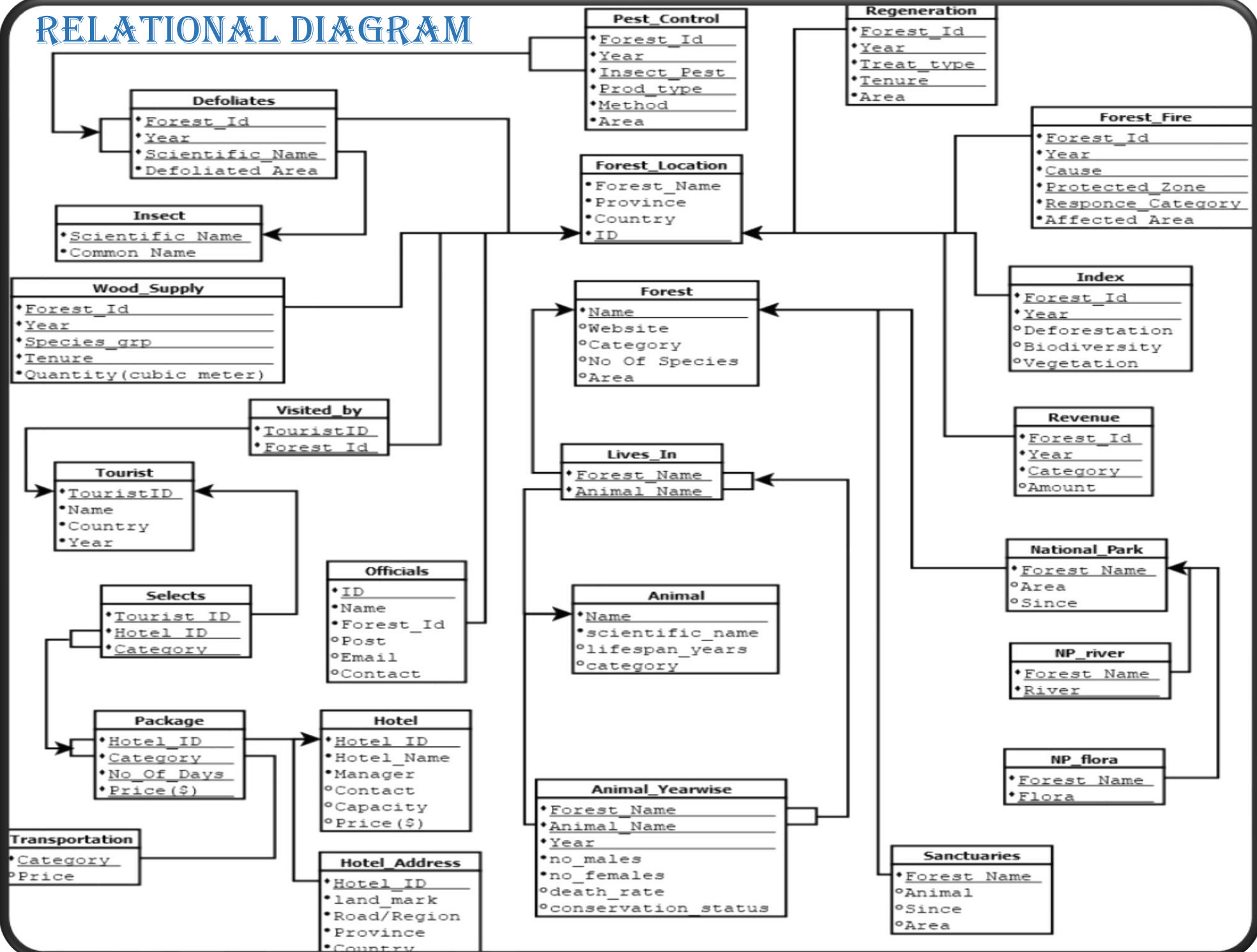


ER
MODEL



RELATIONAL DIAGRAM



FUNCTIONAL DEPENDENCIES AND PROOF OF BCNF

TABLE	MINIMAL FUNCTIONAL DEPENDENCIES	PRIMARY KEY/FORM
Forest	Name→ {Website, Category, No_of_species, area_km2}	Name/BCNF
Forest_Location	ID→{Forest_name,Province,Country}	ID/BCNF
Animal	Name→ {Scientific_name,Lifespan_years,Category} Scientific_name→ {Lifespan_years, Category}	Name/BCNF
Animal_yearwise	{Forest_name, Animal_name,year}→ {no_males,no_females,death_rate,conservation_status}	{Forest_name, Animal_name,year}/BCNF
Insect	Scientific_name→Common_name Common_name→Scientific_name	Scientific_name/BCNF
Defoliates	{Forest_id,year,Scientific_name}→ Defoliated_area	{Forest_id,year,Scientific_name}/BCNF
Pest_control	{Forest_id,year,Insect_pest,Prod_type,Method}→Area	{Forest_id,year,Insect_pest,Prod_type,Method}/BCNF
Wood_supply	{Forest_id,year,Species_grp,Tenure}→ Quantity_cubic_meter	{Forest_id,year,Species_grp,Tenure}/BCNF

Regeneration	{Forest_id,year,Treat_type,Tenure}→ Area	{Forest_id,year,Treat_type,Tenure}/BCNF
Forest_fire	{Forest_id,year,cause,Protected_zone, Responce_category}→ Affected_area	{Forest_id,year,cause,Protected_zone,Resp once_category}/BCNF
Index	{Forest_id,year}→ {Deforestation,Biodiversity,Vegetation}	{Forest_id,year}/BCNF
Revenue	{Forest_id,year,Category}→Amount	{Forest_id,year,Category}/BCNF
National_park	Forest_name→{Area,Since}	Forest_name/BCNF
Sanctuaries	Forest_name→{Animal,Since,Area}	Forest_name/BCNF
Officials	ID→{Name,Forest_Id,Email,Contact,Post}	ID/BCNF
Tourist	ID→{Name,Country,Year}	ID/BCNF
Hotel	Hotel_id→ {Hotel_name,Manager,Contact,Capacity, Price\$}	Hotel_id/BCNF
Hotel_Address	Hotel_id→ {Land_mark,Road/Region,Province, Country}	Hotel_id/BCNF
Transportation	Category→Price	Category/BCNF