**Report**

**Relational Schema**

1. Patient (name, picture, patientID ,breed)
   1. Primary key patientID
   2. Foreign key breed
2. Type\_of\_patient(Breed , Taxon)
   1. Primary Key Breed
3. Identifier ( patientID , One\_tag , left\_tag , right\_tag ,other\_ids)
   1. Primary Key patientID
4. Diagnosis( type, first\_name\_vet, last\_name\_vet, phone\_vet, patientID)
   1. Primary Key type, first\_name\_vet, last\_name\_vet, phone\_vet, patientID
   2. Foreign Key
      1. first\_name\_vet, last\_name\_vet, phone\_vet
      2. patientID
5. Admitted (patientID, first\_name, last\_name ,rescuer\_Mobile, AccessionNumber, Location, Date , Time , Suburb, Jurisdictions)
   1. Primary Key AccessionNumber
   2. Foreign Key
      1. patientID
      2. first\_name, last\_name ,rescuer\_Mobile
6. Rescuer (first\_name , last\_name , rescuer\_Mobile)
   1. Primary key first\_name , last\_name , rescuer\_Mobile
7. DNA (patientID , Sample\_taken\_date, Sample\_entry\_date, Result)
   1. Primary Key (patientID , Sample\_taken\_date, Sample\_entry\_date, Result)
   2. Partial Key Sample\_taken\_date, Sample\_entry\_date
8. Treatment (PatientID, first\_name, last\_name, phone\_vet , Surgery ,other action )
   1. Primary Key patientID, first\_name, last\_name, phone\_vet
   2. Foreign Key
      1. first\_name, last\_name, phone\_vet
      2. PatientID
9. Medicine(PatientID , first\_name, last\_name, phone\_vet

Med\_name, start\_date, end\_date)

* 1. Primary Key (PatientID , first\_name, last\_name, phone\_vet, Med\_name, start\_date , end\_date)
  2. Foreign Key
     1. patientID
     2. first\_name, last\_name, phone\_vet

1. Vet (first\_name, last\_name, vet\_Mobile)
   1. Primary Key first\_name, last\_name, vet\_Mobile
2. Wildlife\_carer (first\_name, last\_name, phone\_carer , Permit\_number )
   1. Primary key carer\_Mobile
   2. Foreign Key Permit\_number
3. Wildlife\_carer\_group(permit\_number , valid\_uptill ,Name)
   1. Primary key permit\_number
4. Permit\_type(permit\_number , type)
   1. Primary Key permit\_number , type
   2. Foreign Key
      1. permit\_number
5. AZWH( first-name, last\_name, Mobile, type\_of\_person , email , salutation ,state , Country , postcode , Street , City)
   1. Primary Key first-name, last\_name, Mobile
6. Other\_contact(first-name, last\_name, Mobile , number)
   1. Primary Key first-name, last\_name, Mobile
7. Care\_for ( first\_name , last\_name ,phone\_carer ,patientID)
   1. Primary Key first\_name , last\_name ,phone\_carer ,patientID
   2. Foreign Key
      1. first\_name, last\_name , phone\_carer
      2. patientID

**Supplementary design requirements and Assumptions**

**Considering the worst case scenario these are the following assumptions**

1. The size of patientID is varchar(10)
2. The size of AccessionNumber is integer (6)
3. Mobile number, first name, last name is created as primary key the reason is
   1. It is uniquely available for everyone.
   2. Everyone has a cell phone or a primary contact number but since it can be shared by two people so we used first\_name and last\_name too.
4. The field first\_name, last\_name, Mobile, sample\_taken, sample\_entry, Taxon Bread and address are compulsory.
5. The data attribute should not exceed 64KB of data.
6. Image should not increase 16Mb
7. Considered that a vet can see many animal and an animal can be treated and diagnosed.
8. An animal can be brought in by one or more rescuer and rescuer can bring more than one animal.
9. The same animal can go through DNA test more than once, so it is a weak entity.
10. Medicine are more than one.
11. The animal are admitted more than once or the Accession number will be used as a primary key.
12. One wildlife carer can take care of one or more animal and one animal can be under the care of more than one carer.
13. Everyone i.e. vet, wildlife carer and rescuer has one to one relationship with AZWH and AZWH also have contact other than these as the others zoos, hospital etc.
14. The name of any entity is of 30 characters not more than that.
15. The patient id is 10 characters long.
16. The mobile number is 11 integer long
17. Email id is 50 character long
18. Constraint are properly mentioned in the table creations.