4 - Making Cladograms

Data Table

TRAITS	Kangaroo	Lamprey	Rhesus Monkey	Bullfrog	Human	Snapping Turtle	Tuna
Dorsal Nerve Cord Notochord	✅	✅	✅	✅	✅	✅	✅
Paired Appendages Vertebral Column	✅		✅	✅	✅	✅	✅
Paired Legs	✅		✅	✅	✅	✅	
Amnion	✅		✅		✅	✅	
Mammary Glands	✅		✅		✅		
Placenta			✅		✅		
Canine teeth short Foramen magnum fwd					✅		

Reordered Table

TRAITS	Human	Rhesus Monkey	Kangaroo	Snapping Turtle	Bullfrog	Tuna	Lamprey
Dorsal Nerve Cord Notochord	✅	✅	✅	✅	✅	✅	✅
Paired Appendages Vertebral Column	✅	✅	✅	✅	✅	✅	
Paired Legs	✅	✅	✅	✅	✅		
Amnion	✅	✅	✅	✅			
Mammary Glands	✅	✅	✅				
Placenta	✅	✅					
Canine teeth short Foramen magnum fwd	✅						

Claydogram

```
        /- Human
       /              (Foramen magnum fwd)
      /- Rhesus Monkey
     /            (Placenta)
    /- Kangaroo
   /            (Mammary Glands)
  /- Snapping Turtle
 /            (Amnion)
/- Bullfrog
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   /                (Paired Legs)
  /- Tuna
 /                  (Paired Appendages)
 /- Lamprey
/                   (Dorsal Nerve)
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Summary

Shows

1. Likely relationships
2. Possible common ancestors and origins of characteristic
3. Shared characteristics

Application

1. Iguana: near the turtle as they share prior characteristics
2. Rat: Near the monkey
3. Goldfish: Near the tuna