SPARQL Questions for Mars RDF Data

Easy Questions

1. What is the escape velocity of Mars, and how does it compare to the speed of sound (340 m/s)?

2. How many moons does Mars have?

3. Does Mars have a global magnetic field?

Medium Questions

1. What are the atmospheric composition and mean surface temperature of Mars? SPARQL Query: SELECT ?composition ?meanTemperature WHERE { <http://example.org/planet/Mars> <http://example.org/hasAtmosphericComposition> ?composition; <http://example.org/hasMeanTemperature> ?meanTemperature. } 2. What is the mass and diameter of Mars, and what does that tell us about its density? SPARQL Query: SELECT ?mass ?diameter WHERE { <http://example.org/planet/Mars> <http://example.org/hasMass> ?mass; <http://example.org/hasDiameter> ?diameter. } 3. What is the surface gravity of Mars, and how does it compare to Earth's (9.8 m/s²)? SPARQL Query: SELECT ?surfaceGravity WHERE { <http://example.org/planet/Mars> <http://example.org/hasSurfaceGravity> ?surfaceGravity.

Difficult Questions

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1. What is the range of Mars' surface temperature? How does it vary from the poles to the equator?

2. Retrieve all features and atmospheric properties of Mars and summarize what makes it unique.

3. List all RDF triples describing Mars. Can you identify which data is missing?