SpaceX Database Management System

Conceptual Schema

24, Nov 2020;

Database Conceptual Schema

- Rocket (name: VARCHAR(20), type: VARCHAR(10), stages: INTEGER, rocket_id: VARCHAR(24), active: BOOLEAN, country: VARCHAR(40), company: VARCHAR(20), cost_per_launch: INTEGER);
- Payloads (payload_id: VARCHAR(24), name: VARCHAR(35), type: VARCHAR(20), reuse: BOOLEAN, manufacturer: VARCHAR(10), mass_kg: FLOAT, mass_lb: FLOAT, orbit: VARCHAR(3), reference_system: VARCHAR(12), regime: VARCHAR(20));
- 3. **Missions** (launch_status: **BOOLEAN**, launch_id: **VARCHAR(24)**, name: **VARCHAR(25)**, date: **DATETIME**);
- 4. Launch Pad (launchpad_id: VARCHAR(24), name: VARCHAR(20), full_name: VARCHAR(40), status: VARCHAR(20), locality: VARCHAR(30), region: VARCHAR(20), timezone: VARCHAR(30), latitude: FLOAT, longitude: FLOAT);
- Drone Ship (ship_id: VARCHAR(24), home_port: VARCHAR(30), name: VARCHAR(35), type: VARCHAR(20), roles: VARCHAR(45), activity: BOOLEAN, mass_kg: FLOAT, mass_lb: FLOAT);
- Administrators (name: VARCHAR(25), admin_id: VARCHAR(12), password: VARCHAR(20) check (LENGTH(password) > 8), access_level: VARCHAR(10));

Conceptual Schema for Relations:

- 1. **Delivers** (payload_id: **VARCHAR(24)**, rocket_id: **VARCHAR(24)**);
- Assigned (rocket_id: VARCHAR(24), payload_id: VARCHAR(24), launchpad_id: VARCHAR(24));
- 3. First_stage_recovery (rocket_id: VARCHAR(24), ship_id: VARCHAR(24));
- 4. **Updates_Data** (launchpad_id: **VARCHAR(24)**, payload_id: **VARCHAR(24)**, rocket_id: **VARCHAR(24)**, ship_id: **VARCHAR(24)**);