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);
- 2. 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**, <u>launch_id</u>: **VARCHAR(24)**, name: **VARCHAR(25)**, date: **DATETIME**);
- 4. Launch Pad (<u>launchpad_id: VARCHAR(24)</u>, name: VARCHAR(20), full_name: VARCHAR(40), status: VARCHAR(20), locality: VARCHAR(30), region: VARCHAR(20), timezone: VARCHAR(30), latitude: FLOAT, longitude: FLOAT);
- 5. **Drone Ship** (<u>ship id: VARCHAR(24)</u>, home_port: VARCHAR(30), name: VARCHAR(35), type: VARCHAR(20), roles: VARCHAR(45), activity: BOOLEAN, mass_kg: FLOAT, mass_lb: FLOAT);
- 6. Administrators (name: VARCHAR(25), admin_id: VARCHAR(12), password: VARCHAR(20) check (LENGTH(password) > 8), access_level: VARCHAR(10));

Conceptual Schema for Relations:

- Delivers (<u>payload id: VARCHAR(24)</u>, <u>rocket id: VARCHAR(24)</u>);
- 2. **Assigned** (<u>rocket id: VARCHAR(24)</u>, <u>payload id: VARCHAR(24)</u>, <u>launchpad id: VARCHAR(24)</u>);
- 3. First_stage_recovery (<u>rocket_id: VARCHAR(24)</u>, <u>ship_id: VARCHAR(24)</u>);
- 4. Updates_Data (<u>launchpad id: VARCHAR(24)</u>, <u>payload id: VARCHAR(24)</u>, <u>rocket id: VARCHAR(24)</u>, <u>ship id: VARCHAR(24)</u>);