

SpaceX Database Management System

Requirement Analysis

23, Nov 2020

Batch No - 09

Database Composition

Entities

1. Rocket
2. Payloads
3. Missions
4. Launch Pad
5. Drone Ships
6. Administrators

Relations

1. Launches (**Launch Pad - Launches - Rocket**)
2. Assigned (**Mission - Assigned to - Rocket**)
3. Delivers (**Payload - Delivered by - Rocket**)
4. First stage Recovery (**Rocket - First Stage Recovered by - Drone Ship**)

Attribute List

1. Rocket's Attributes
 - Name
 - Type
 - Stages
 - Rocket_id
 - Active
 - Country
 - Company
 - cost_per_launch

2. Payloads

- payload_id
- Name
- Type
- Reuse
- Manufacturer
- Mass (mass_kg, mass_lb)
- Orbital status (reference System, orbit, regime)

3. Missions

- launch_status
- launch_id
- Name
- Date
- rocket_id
- Launchpad_id
- Payload_id

4. Launch Pad

- full_name
- Status
- launchpad_id
- Coordinates (longitude, latitude)
- Location (region, TimeZone, locality)

5. Drone Ship

- Home port
- Activity
- Mass (mass_kg, mass_lb)
- Roles
- ship_id

- Name
- Type

6. Administrators

- Name
- User_id
- Password