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Train Stations

Relational Schema

Train(train_id, base_station_id(FK), conductor_id(FK), engineer_id(FK), train_type)

Foreign Key(base_station_id) References Station(base_station_id)

Foreign Key(conductor_id) References Conductor(conductor_id)

Foreign Key(engineer_id) References Engineer(engineer_id)

Conductor(conductor_id, salary, dob, sex, base_station_id(FK))

Foreign Key(base_station_id) References Station(base_station_id)

Station(base_station_id, station_city, station_state)

Engineer(engineer_id, salary, dob, sex, base_station_id(FK))

Foreign Key(base_station_id) References Station(base_station_id)

Routes(route_id, train_id(FK), depart_time, arrival_time, departing_station_id(FK),
arriving_station_id(FK))

Foreign Key(train_id) References Train(train_id)

Foreign Key(departing_station_id) References Station(base_station_id)

Foreign Key(arriving_station_id) References Station(base_station_id)

About the data

The data represents a group of train stations, and trains of various types. It also contains the engineers and conductors who operate the trains, and the routes between stations they take. The data itself is entirely fictional and contains a few inconsistencies, such as magical trains that transit the country in a

matter of hours, and supersonic trolleys. For the purpose of this assignment, we kept the number of entries low to ease error testing.

Updated ER Model

