

Budget and Financials of MBTA

Milestone: Logical Model (Relational model)

Group 21

Gouru Karthikeya Reddy

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Percentage of Effort Contributed by Student 1: 50

Percentage of Effort Contributed by Student 2: 50

Signature of Student 1: Gouru Karthikeya Reddy

Signature of Student 2: Giri Manohar Vemula

Submission Date: 02-26-2023

Logical Model (Relational model)

Expense (Invoice_no, Billing_date, Amount_quater)

Electricity (Station_code, Invoice_no)

Fuel (Invoice_no, Vehicle_type, Charge_type, charge_per_unit, quantity)

Salary (Invoice_No, Employee_id, Start_date, End_date, No_of_hours, Amount)

Maintenance (Invoice_no, Advertisement, Repairs, Renovation)

Train Station (Station_code, station_name, Commuter_type)

Commuter (Vehicle_ID, Station_name, Machines, Dashboards)

Pass Generator (Gen_id, Station_code, Location)

Pass (Pass_id, Gen_id, Balance, Expiry_date, Type)

Scanner(Scanner_id, Gen_id , Location)

Transaction (Transaction_id, Pass_id, Scanner_id, Transaction_date, Quarter, Transaction_time, Amount)

Vehicles (Vehicle_id, Model, Color, *Filling*)

Subway (Vehicle_id, Ticket_Price, Type)

Bus (Vehicle_id, Ticket_Price, Route_no)

Commuter Rail (Vehicle_id, Ticket_Price, Type)

Employees (Employee_id, Dept_id, SSN, DOB, Hours, Wage_per_hour, Address, Last_Name, First_Name, *WorkFor*)

Department(Department_id, Department_name, Location)