ENTITY-RELATIONSHIP DIAGRAM (ERD) FOR HAMILTON STREET RAILWAY (HSR) DATABASE

Bus_Maintenance_Personnel_mapping

PK, FK	Maintenance_id
PK, FK	Maintenance_Personnel_id

Bus_Maintenance

PK	Maintenance_id
FK	Bus_id
	fix_date

Bus

PK	Bus_id
	years_in_operation
	Manufacturer
	number_of_seats
	type_of_fuel
	Advertising_revenue
FK	route_id

Maintenance_Personnel

PK, FK	Maintenance_Personnel_id
	Salary
	years_of_service
	job_level
	area_of_specialisation

Person

PK	person_id
	first_name
	last_name
	Gender
	date_of_birth
	street_address
	City
	Province
	postal_code
	occupation

Event

PK	event_id
	event_date
	event_time
	event_participants
	event_name

Site_event_mapping

PK, FK	site_id
PK, FK	event_id

Site

PK	site_id
	site_name
	Address
	phone_number
	capacity
	category

Site_bus_stop_mapping

PK, FK	site_id
PK, FK	stop_id

Passenger

PK, FK	Passenger_id
FK	Passenger_type

Fare

PK	Passenger_type
	fare_amount

Route

PK	route_id
	Route_name

Bus_driver

PK, FK	driver_id
	Salary
	years_of_service

Bus_driver_log

PK	log_id
FK	bus_id
FK	driver_id
FK	route_id
	start_time
	end_time

Stop

PK	stop_id
	stop_name

Contain

FK	stop_id
FK	route_id
PK	contain_id

Schedule

PK	schedule_id
FK	contain_id
	arrival_time
	arrival_date
FK	bus_id

Contact_number

PK	contact_id
PK, FK	person_id
	phone_number
	phone_number_type

Driving_Infraction

PK, FK	driver_id
PK	infraction_date
	infraction_type
	demerit_points
	Financial_penalty

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