

Excel dataset

Database schema **workbook** · sqlite · 2 tables · 160 rows

About the business

Tri-Valley Regional Transit Authority (TVRTA) operates a network of bus routes across four service zones covering suburban and urban corridors. The authority monitors daily operational data to evaluate route efficiency, driver performance, and fuel consumption. Management uses this data to make scheduling decisions, allocate resources, and report on-time performance to the regional transportation board. The dataset covers a full operational quarter and supports analysis of ridership trends, fuel efficiency, and service reliability by route, vehicle, and zone.

What each table holds

Operations (80 rows)

One row per transaction — this is where the volume is, and where most analysis starts.

Routes (80 rows)

One row per transaction — this is where the volume is, and where most analysis starts.

How the tables relate

Day-to-day activity is recorded in Operations and Routes.

Data dictionary

Table	Column	Type	Meaning	Example
Operations	LogID	pk	Unique identifier for each Operations row.	1
Operations	ServiceDate	date	Date the route service was operated (weekdays only)	2025-01-10
Operations	Zone	category	Geographic service zone the route operates within	South
Operations	RouteCode	category	Alphanumeric route identifier assigned by TVRTA	R204
Operations	VehicleID	category	Fleet vehicle identifier assigned to the route for that day	BUS-04
Operations	VehicleType	category	Class of transit vehicle deployed on the route	Articulated
Operations	DriverID	category	Anonymised identifier for the driver operating the route that day	D005
Operations	ScheduledTrips	int	Number of trips scheduled for the route on that service day	9
Operations	CompletedTrips	int	Number of trips actually completed (may be less than scheduled due to incidents)	5
Operations	OnTimeTrips	int	Number of completed trips that arrived within 5 minutes of schedule	5
Operations	TotalRiders	int	Total passenger boardings recorded across all completed trips for the route	595
Operations	PeakRiders	int	Highest single-trip passenger count recorded during the service day	227
Operations	RouteDistanceMiles	decimal	One-way route distance in miles used to compute per-mile fuel efficiency	11.4
Operations	FuelUsedGallons	decimal	Total fuel consumed in gallons by the vehicle across all trips that day	40.65
Operations	AvgSpeedMPH	decimal	Average vehicle speed in miles per hour across all completed trips	20.9
Operations	IncidentReported	category	Whether any mechanical or safety incident was logged for the vehicle on that day	Yes
Routes	RouteCode	category	Primary key matching RouteCode in the Operations sheet	R508
Routes	RouteName	text	Descriptive name of the route (e.g. Northgate Express, Riverside Local)	Bulk bundle
Routes	PrimaryZone	category	Zone the route primarily serves	East
Routes	ServiceType	category	Classification of service speed and stop frequency	Connector
Routes	BaseFareUSD	decimal	Standard adult single-ride fare for the route in US dollars	3.11

Every value in this dataset is synthetic — no real person, company or record is represented. Generated by the Agoge dataset generator 1.0.0 with seed 17; the same brief and seed reproduce this data exactly.