

## Relational Database Schema

Entity	Field Name	Datatype	Length	Description
LANGUAGE	LanguageCode	CHAR	2	Primary Key, see examples in Ref. [1]
	LanguageName	VARCHAR	50	
COUNTRY	CountryCode	CHAR	2	Primary Key, see examples in Ref. [2]
	CountryName	VARCHAR	50	
COUNTRY_LANGUAGE	CountryCode	CHAR	2	Primary Key, Foreign Key references COUNTRY(CountryCode)
	LanguageCode	CHAR	2	Primary Key, Foreign Key references LANGUAGE(LanguageCode)
	PercentageSpoken	DECIMAL	(5,2)	e.g., 50.25, 80
LOCATION	LocationID	INT(AUTO)		Primary Key
	LocationTypeID	CHAR	2	Foreign Key references LOCATION_TYPE(LocTypeID)
	StreetNo	VARCHAR	5	
	SteetName	VARCHAR	50	
	City	VARCHAR	40	
	State	CHAR	3	e.g., QLD, NSW, SA
	Postcode	CHAR	4	e.g., 4004, 2002, 3003
LOCATION_TYPE	LocTypeID	CHAR	2	Primary Key
	LocTypeDescription	VARCHAR	40	e.g., Airport, Swimming Pool
DRIVER	DriverLicenceNum	CHAR	12	Primary Key
	DriverFirstName	VARCHAR	40	
	DriverLastName	VARCHAR	40	
	ClearanceLevel	CHAR	1	Levels: 1, 2, 3, 4 (4 is the highest clearance)
	IsAvailable	CHAR	1	Y, N
DRIVER_LANGUAGE	LanguageCode	CHAR	2	Primary Key, Foreign Key references LANGUAGE(LanguageCode)
	DriverLicenceNum	CHAR	12	Primary Key, Foreign Key references DRIVER(DriverLicenceNum)
	DriverLanguageProf	CHAR	1	See examples in Ref. [3] (5 is the highest)
VEHICLE	VIN	CHAR	17	Primary Key
	Veh_TypeID	CHAR	2	Foreign Key references VEHICLE_TYPE(Veh_TypeID)
	Veh_Make	VARCHAR	30	e.g., Toyota
	Veh_Model	VARCHAR	30	e.g., Corolla
	Veh_Year	CHAR	4	e.g., 2020
	Veh_Colour	VARCHAR	20	e.g., Red
	Veh_RegoNum	CHAR	6	
	Veh_Odometer	INT		
	Veh_Availability	CHAR	1	Y, N
	Veh_For_Passenger	CHAR	1	Y, N
	Veh_For_Cargo	CHAR	1	Y, N
	Veh_TypeID	CHAR	2	Primary Key
	Veh_Type_Description	VARCHAR	40	e.g., Sedan
MAINTENANCE_REPAIR	VIN	CHAR	17	Primary Key, Foreign Key references VEHICLE(VIN)
	OdometerReading	INT		Primary Key
	MR_Type	CHAR	1	M, R
	MR_Date	DATE		<b>Format:</b> DD-MM-YYYY
	MR_Cost	DECIMAL	(7,2)	
	MR_Detail	VARCHAR	100	

OFFICIAL	OfficialID	CHAR	8	Primary key
	OfficialRole	CHAR	2	Foreign Key references OFFICIAL_ROLE(RoleID)
	CountryCode	CHAR	2	Foreign key references COUNTRY(CountryCode)
	OfficialFirstName	VARCHAR	40	
	OfficialLastName	VARCHAR	40	
OFFICIAL_ROLE	RoleID	CHAR	2	Primary key
	RoleDescription	VARCHAR	40	e.g., Judge, Coach
TRIP	BookingRefNum	INT (AUTO)		Primary Key
	DriverLicenceNum	CHAR	12	Foreign Key References DRIVER(DriverLicenceNum)
	OfficialID	CHAR	8	Foreign key references OFFICIAL_LANGUAGE(OfficialID)
	LanguageCode	CHAR	2	Foreign Key references OFFICIAL_LANGUAGE(LanguageCode)
	PickUpLocID	INT		Foreign key references LOCATION(LocationID )
	DropOffLocID	INT		Foreign key references LOCATION(LocationID )
	VIN	CHAR	17	Foreign Key references VEHICLE(VIN)
	StartTimeIntended	DATETIME		<b>Format:</b> DD-MM-YYYY HH:MM:SS
	EndTimeIntended	DATETIME		<b>Format:</b> DD-MM-YYYY HH:MM:SS
	StartTimeActual	DATETIME		<b>Format:</b> DD-MM-YYYY HH:MM:SS
	EndTimeActual	DATETIME		<b>Format:</b> DD-MM-YYYY HH:MM:SS
	StartOdometerKM	INT		
	EndOdometerKM	INT		
PASSENGER_VEHICLE	VIN	CHAR	17	Primary Key, Foreign Key references VEHICLE(VIN)
	Pass_seat_capacity	TINYINT		e.g., 1, 2, 3, ...
CARGO_VEHICLE	VIN	CHAR	17	Primary Key, Foreign Key references VEHICLE(VIN)
	Carg_cfeet_capacity	SMALLINT		e.g., 40, 210, 350 (1 cubic foot = 0.025 tons)
	Carg_tons_capacity	Decimal	(5,2)	e.g., 1, 5.25, 8.75 (1 ton = 40 cubic feet)
OFFICIAL_LANGUAGE	OfficialID	CHAR	8	Primary Key, Foreign key references OFFICIAL(OfficialID)
	LanguageCode	CHAR	2	Primary Key, Foreign Key references LANGUAGE(LanguageCode)
	Off_Lang_Preference	CHAR	1	1, 2, 3, 4, 5, ... (1 is the highest preference)

#### References:

- [1] Language Codes, [https://en.wikipedia.org/wiki/List\\_of\\_ISO\\_639-1\\_codes](https://en.wikipedia.org/wiki/List_of_ISO_639-1_codes).
- [2] Country Codes, [https://en.wikipedia.org/wiki/ISO\\_3166-1](https://en.wikipedia.org/wiki/ISO_3166-1).
- [3] Language Proficiency Levels, <https://corporatefinanceinstitute.com/resources/career/language-proficiency-levels/>.