Off-Road.ca Vitaliy Bulyma

Website about off-road vehicles where people can

- Create profiles for their cars/trucks/bikes and

- Profiles for themselves

//- Events calendar

//- Create Event

//- Reserve/buy tickets for events as spectators or participants

//- Discussion board

//- Voting system on best vehicle in type

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# Justification for database structure: #

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Vehicle Types:

- There are 5 types of vehicles in the context of this website : ATV, Side-by-Side, Cars, Trucks, and Dirtbikes

\*Vehicle Types to Vehicles is "One - to - Many" relationship since there could be: multiple vehicles of one type, and Vehicles can be only of one type.

\*Vehicle Types Do Not have direct relationship to Owners table

Vehicles:

- Are described by : Make, Model,Year, Color, Engine Size and vehicle type

- One owner can have many vehicles(e.g. truck and dirtbike)

- One vehicle can have several owners(e.g. Couples, race partners, friends, etc)

\*Vehicles to Owners are "Many - to - Many" relationship (e.g. many vehicles can be owned by one or multiple owners)

Owners:

- Are described by: first name, last name, nickname, location where they live

- Vehicle(s) that they own

- Can own one or more vehicle, individually owned or co-owned with others

VehiclexOwner:

\*VehiclexOwners is a bridging table to accommodate many to many relationship between

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# Databases: #

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vehicletype:

vehicletypeid(PK)

Vehicletypename

vehicles:

vehicleid(PK)

vehicletypeid(FK)

vehiclemake

vehiclemodel

vehicleyear

vehiclecolor

vehicleengine

vehiclexowner:

vehiclexownerid(PK)

vehicleid(FK)

ownerid(FK)

Owners:

ownerid (PK)

ownerfname

ownerlname

ownernickname

ownerlocation

//Events:

eventid(PK)

eventname

eventlocation

time

//vehicletypexevent:

vehicletypexeventid

vehicleid

Eventid

##########################

#### Classes: ####

##########################

VehicleType

{

VehicleTypeName

}

Vehicle

{

Make:

Model:

Year:

Color:

}

Owner

{

FName:

LName:

NickName:

Vehicle(s):

OwnerLocation:

}

// Event

{

EventName:

EventLocation:

VehiclesAllowed:

}