

Assessment

Faculty of Information Technology

FIT9132: Introduction to Databases

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Assignment 1: Conceptual Model

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1. Assumptions for Entities and Attributes

No.	Entities	Attributes	ID	Assumptions
1.	Vehicles	 VIN (Vehicle Entity Number - 17 characters) Registration plate (7 characters) Car makes (Peugeot) Odometer Reading Passenger capacity 	 veh_vin [Primary key] veh_plate veh_make veh_read veh_passengers 	Vehicle is an entity because it helps Paris Arrow Transit (PAT) to track the and identifies its' vehicle operation during Olympic competition
2.	National Olympic Committee (NOC)	 IOC Code Country Name Region Name Population 	5. noc_ioc [Primary key]6. noc_team7. noc_region8. noc_ppl	NOC is an entity because each NOC comes from different country and they will enter their team into the competition.
3.	NOC Officials	9. Olympic ID 10. NOC name 11. NOC role 12. NOC IOC 13. Chef De Mission ID	14. off_id [Primary key] 15. off _fname 16. off_lname 17. off _role 18. noc _ioc 19. off _manager	NOC Officials is an entity because each officials have their own role in the NOC and they will be booking and using the official vehicles throughout Olympic competition period
4.	Trip	 Trip ID NOC ID Vehicle Vin Driver ID Preferred language Pick up date and time. Drop off date and time. Number of passengers 	 trip_id [Primary key] off_id veh_vin dri_id trip_lang trip_putime trip_dotime trip_passengers off_id 	Trip is an entity because it tracks the number of trip and passengers that were using the services of PAT throughout Olympic competition

5.	Driver	 Driver id Drive's name (Given and Family) Driver's license Driver's date of birth Driver's security clearance level Driver's spoken language Driver's 	 dri_id [Primary key] dri_name dri_licno dri_birth dri_level dri_lang dri_susp 	Driver is an entity, because it will link to the officials who uses their services during Olympic competition
		suspension status		
6.	Training module	1. Training Module Code	 train_code train_name train_descrip 	The training module is an entity because it is associated with
		2. Training	4. train_date5. train_expiry	the driver's right to drive for PAT.
		4. Training duration5. Training expiry		
7.	Training Record	 Driver's ID Training Module Code Training Module completion date 	 dri_id train_name tr_comp 	Driver's training is an entity as it allows PAT to monitor the number of drivers who have completed the module or whose training is approaching expiration.
8	Particular Trip	 Driver's ID Driver's Language Vehicle Vin 	2. dri_id3. dri_lang4. veh_vin	Particular entity is a a bridging entity to link with the drivers and vehicle for specific trip

2. Determination of Relationship