Car Rental System Analysis and Design

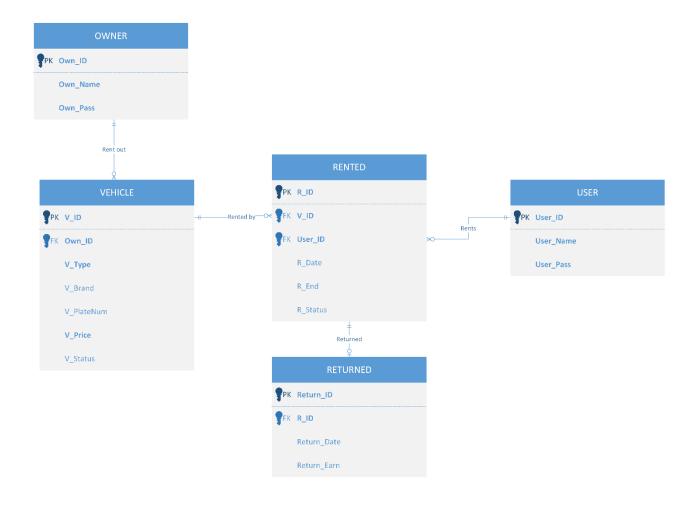
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Car Rental System ERD



Data Dictionary

Table USER

No	Name	DataType	Length	Key	Description	Mandatory
						(Yes/No)
1	User_ID	Number	10	PK	A unique user	Yes
					identification	
2	User_Name	Character	20		Name of the user	Yes
3	User_Pass	Character	20		Password of the user	Yes
					account	

Table OWNER

No	Name	DataType	Length	Key	Description	Mandatory (Yes/No)
1	Own_ID	Number	10	PK	A unique owner	Yes
					identification	
2	Own_Name	Character	20		Name of owner	Yes
3	Own_Pass	Character	20		Password of owner	Yes
					account	

Table VEHICLE

No	Name	DataType	Length	Key	Description	Mandatory (Yes/No)
1	V_ID	Number	10	PK	A unique vehicle identification	Yes
2	Own_ID	Number	10	FK	A foreign key of table OWNER	Yes
3	V_Type	Character	20		Vehicle type	Yes
4	V_Brand	Character	20		Vehicle brand	No
5	V_PlateNum	Character	20		Vehicle plate number	No
6	V_Price	Number	10		The price of the rental per day	Yes
7	V_Status	Character	20		(available/unavailable)	No

Table RENTED

No	Name	DataType	Length	Key	Description	Mandatory (Yes/No)
1	R_ID	Number	10	PK	A unique rental identification	Yes
2	V_ID	Number	10	FK	A foreign key of table VEHICLE	Yes
3	User_ID	Number	10	FK	A foreign key of table USER	Yes
4	R_Date	Date			The date when the rental starts	No
5	R_End	Date			The date when the rental ends	No
6	R_Status	Character	30		(active/returned)	No

Table RETURNED

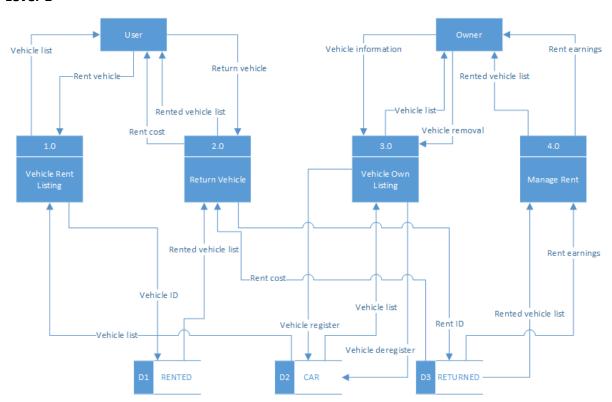
No	Name	DataType	Length	Key	Description	Mandatory (Yes/No)
1	Return_ID	Number	10	PK	A unique rental returned identification	Yes
2	R_ID	Number	10	FK	A foreign key of table RENTED	Yes
3	Return_Date	Date			The date of rental returned/cancellation	No
4	Return_Earn	Number	10		Calculated rent cost by day	No

Car Rental System DFD

Context Diagram



Level-1



Car Rental System Flowchart

