

- Bike

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	INTEGER	Yes	ID, auto increment
2			licensePlate	VARCHAR	Yes	Bike license number string
3			price	INTEGER	Yes	Price of the bike
4			nSaddles	INTEGER	Yes	Number of saddles of the bike
5			nPedals	INTEGER	Yes	Number of pedals of the bike
6			nRearSeats	INTEGER	Yes	Number of rear seats of the bike

- StandardBike

#	PK	FK	Column name	Data type	Mandatory	Description
1	x	x	id	INTEGER	Yes	ID of the bike

- TwinBike

#	PK	FK	Column name	Data type	Mandatory	Description
1	x	x	id	INTEGER	Yes	ID of the bike

- EBike

#	PK	FK	Column name	Data type	Mandatory	Description
1	x	x	id	INTEGER	Yes	ID of the bike
2			batteryLife	FLOAT	Yes	Battery life of ebike

- Dock

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	INTEGER	Yes	ID, auto increment

2			name	VARCHAR	Yes	Name of the dock
3			address	VARCHAR	Yes	Address of the dock
4			area	FLOAT	Yes	Total area of the dock
5			capacity	INTEGER	Yes	Number of lots in the dock

- Lock

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		barCode	VARCHAR	Yes	ID, identify a lock
2		x	bikeId	INTEGER	No	ID of the bike currently attached to the dock
3		x	dockId	INTEGER	Yes	ID of the dock to which the lock belongs
4			status	ENUM('LOCKED', 'RELEASED')	Yes	Current status of the lock

- Rental

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	INTEGER	Yes	ID, auto increment
2		x	bikeId	VARCHAR	Yes	ID of the rented bike
3			deposit	INTEGER	Yes	Amount of deposit
4			startTime	TIMESTAMPTZ	Yes	When the rental starts
5			returnTime	TIMESTAMPTZ	No	When the bike is returned

- Invoice

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	INTEGER	Yes	ID, auto increment
2			totalAmount	INTEGER	Yes	Total
3		x	rentalId	INTEGER	Yes	Rental ID

- PaymentTransaction

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	INTEGER	Yes	ID, auto increment
2			createdAt	TIMESTAMPTZ	Yes	Date of creation
3			content	VARCHAR	Yes	Transaction content
4			method	VARCHAR	Yes	Payment method
5		x	cardId	INTEGER	Yes	ID of user's card
6		x	invoiceId	INTEGER	Yes	Invoice ID

- Card

#	PK	FK	Column name	Data type	Mandatory	Description
1	x		id	INTEGER	Yes	ID, auto increment
2			cardCode	VARCHAR	Yes	Card code