

bike

#	PK	FK	Column Name	Data Type	Mandatory	Description
1	X		id	UUID	Yes	UUID
2			type	INT	Yes	Bike type, e.g., Standard Bike, E-Bike, ...
3			barcode	INT	Yes	Barcode for renting
4			saddle_num	INT	Yes	Number of saddles
5			pedal_num	INT	Yes	Number of pedals
6			rear_seat_num	INT	Yes	Number of rear seats
7			value	INT	Yes	Value of the bike
8			rental_fees	INT	Yes	Rental fees
9		X	dock_id	UUID	No	Dock ID
10			image_url	TEXT	Yes	URL of image of bike
11			description	TEXT	No	
12			created_at	TIMESTAMP WITH TIME ZONE	No	Created time

e_bike

#	PK	FK	Column Name	Data Type	Mandatory	Description
1		X	bike_id	UUID	Yes	ID, same as ID of Bike of which type is E-Bike
2			battery	NUMERIC	Yes	Battery left percentage
3			time_remain	INT	Yes	Time remaining
4			created_at	TIMESTAMP WITH TIME ZONE	No	Created time

dock

#	PK	FK	Column Name	Data Type	Mandatory	Description
1	X		id	UUID	Yes	UUID
2			name	TEXT	Yes	Name of the dock
3			location	TEXT	Yes	Address of the dock
4			capacity	INT	Yes	Total parking slot
5			bike_num	INT	Yes	Number of bike in the dock
6			image_url	TEXT	Yes	URL of image of dock
7			created_at	TIMESTAMP WITH TIME ZONE	No	Created time
8			taken_slot	integer	Yes	Taken slot in a dock

session

#	PK	FK	Column Name	Data Type	Mandatory	Description
1	X		id	UUID	Yes	UUID
2		X	card_id	UUID	Yes	Card Id
3		X	bike_id	UUID	Yes	Bike Id
4			start_time	TEXT	No	Start time of session
5			end_time	TEXT	No	End time of session
6		X	rent_transaction_id	UUID	Yes	Renting transaction ID
7		X	return_transaction_id	UUID	No	Returning transaction ID
8			last_resume_time	TEXT	No	Last resume time
9			active	boolean	No	Session state
10			created_at	TIMESTAMP WITH TIME ZONE	No	Created time
11			last_rent_time_before_lock	INT	No	Last rent time before lock

payment_transaction

#	PK	FK	Column Name	Data Type	Mandatory	Description
1	X		id	UUID	Yes	UUID
2		X	card_id	UUID	Yes	Card ID
3			type	TEXT	Yes	Type of the transaction
4			create_at	TIMESTAMP	Yes	Time when the transaction is created
5			amount	NUMERIC	Yes	Transaction amount
6			method	TEXT	Yes	Method of payment
7			created_at	TIMESTAMP WITH TIME ZONE	No	Created time

card

#	PK	FK	Column Name	Data Type	Mandatory	Description
1	X		id	UUID	Yes	UUID
2			card_owner	TEXT	Yes	Full name of the card owner
3			card_num	TEXT	Yes	Card number, hashed
4			security_code	TEXT	Yes	Security code, hashed
5			exp_date	TEXT	Yes	Expiration date
6			created_at	TIMESTAMP WITH TIME ZONE	No	Created time

invoice

#	PK	FK	Column Name	Data Type	Mandatory	Description
1	X		id	UUID	Yes	UUID
2		X	session_id	UUID	Yes	Session ID
3			total_charge	NUMERIC	No	Total charge money
4			created_at	TIMESTAMP WITH TIME ZONE	No	Created time