

```
CREATE TABLE bike_type (  
  id INT NOT NULL,  
  name VARCHAR(45),  
  value SMALLINT  
);
```

```
ALTER TABLE bike_type ADD CONSTRAINT PK_bike_type PRIMARY KEY (id);
```

```
CREATE TABLE Dock (  
  id INT NOT NULL,  
  name VARCHAR(45),  
  dockArea FLOAT(20),  
  address VARCHAR(100),  
  dock_image_url VARCHAR(100)  
);
```

```
ALTER TABLE Dock ADD CONSTRAINT PK_Dock PRIMARY KEY (id);
```

```
CREATE TABLE dock_empty_point (  
  id INT NOT NULL,  
  empty_points INT,  
  max_available_points INT,  
  dock_id INT NOT NULL,  
  bike_type_id INT NOT NULL  
);
```

```
ALTER TABLE dock_empty_point ADD CONSTRAINT PK_dock_empty_point PRIMARY KEY (id);
```

```
CREATE TABLE Transaction (  
  id CHAR(10) NOT NULL,  
  name VARCHAR(45),  
  code VARCHAR(100),  
  time DATE,  
  content VARCHAR(100),  
  amount INT  
);
```

```
ALTER TABLE Transaction ADD CONSTRAINT PK_Transaction PRIMARY KEY (id);
```

```
CREATE TABLE Bike (  
  id INT NOT NULL,  
  name VARCHAR(45),  
  bikeValue INT,  
  isBeingUsed SMALLINT,  
  licence_plate VARCHAR(100),  
  bike_image_url VARCHAR(30),  
  brand VARCHAR(100),  
  bike_type_id INT NOT NULL,  
  dock_id INT NOT NULL  
);
```

```
ALTER TABLE Bike ADD CONSTRAINT PK_Bike PRIMARY KEY (id);
```

```
CREATE TABLE bike_attribute (  
  id INT NOT NULL,  
  name VARCHAR(45),  
  value VARCHAR(100),  
  bike_id INT  
);
```

```
ALTER TABLE bike_attribute ADD CONSTRAINT PK_bike_attribute PRIMARY KEY (id);
```

```
CREATE TABLE rental_bike_code (  
  id INT NOT NULL,  
  bar_code VARCHAR(100),  
  bike_id INT  
);
```

```
ALTER TABLE rental_bike_code ADD CONSTRAINT PK_rental_bike_code PRIMARY KEY (id);
```

```
ALTER TABLE dock_empty_point ADD CONSTRAINT FK_dock_empty_point_0 FOREIGN KEY (dock_id)  
REFERENCES Dock (id);
```

```
ALTER TABLE dock_empty_point ADD CONSTRAINT FK_dock_empty_point_1 FOREIGN KEY  
(bike_type_id) REFERENCES bike_type (id);
```

```
ALTER TABLE Bike ADD CONSTRAINT FK_Bike_0 FOREIGN KEY (bike_type_id) REFERENCES bike_type (id);
```

```
ALTER TABLE Bike ADD CONSTRAINT FK_Bike_1 FOREIGN KEY (dock_id) REFERENCES Dock (id);
```

```
ALTER TABLE bike_attribute ADD CONSTRAINT FK_bike_attribute_0 FOREIGN KEY (bike_id) REFERENCES  
Bike (id);
```

```
ALTER TABLE rental_bike_code ADD CONSTRAINT FK_rental_bike_code_0 FOREIGN KEY (bike_id)  
REFERENCES Bike (id);
```