# **Using of SQLite**

<https://ionicframework.com/docs/native/sqlite/>

1. $ ionic cordova plugin add cordova-sqlite-storage  
   $ npm install --save @ionic-native/sqlite

In App.module.ts

...

import { SQLite, SQLiteObject } from '@ionic-native/sqlite';

…

providers: [

…

SQLite,

…

**In test.ts**

**import { Component } from '@angular/core';**

**import { IonicPage, NavController, NavParams } from 'ionic-angular';**

**import {RestProvider} from '../../providers/rest/rest';**

**import { SQLite, SQLiteObject } from '@ionic-native/sqlite';**

**//@IonicPage()**

**@Component({**

**selector: 'page-am-test',**

**templateUrl: 'am-test.html',**

**})**

**export class AmTestPage {**

**expenses: any = [];**

**data = { plan\_id:"5", plan\_data:{pp:12} };**

**constructor(public navCtrl: NavController,**

**public navParams: NavParams,**

**private sqlite: SQLite,**

**public restProvider:RestProvider) {**

**}**

**ionViewDidLoad() {**

**console.log('ionViewDidLoad AmTestPage');**

**//this.getData();**

**//this.saveData();**

**}**

**replaceSigleComma(obj){**

**return obj.replace(/'/g,"");**

**}**

**getData() {**

**this.sqlite.create({**

**name: 'ionicdb.db',**

**location: 'default'**

**}).then((db: SQLiteObject) => {**

**db.executeSql('SELECT \* FROM TripTbl ORDER BY rowid DESC', [])**

**.then(res => {**

**this.expenses = [];**

**console.log("get data FROM table",res);**

**for(var i=0; i<res.rows.length; i++) {**

**this.expenses.push({rowid:res.rows.item(i).rowid,plan\_id:res.rows.item(i).plan\_id,plan\_data:res.rows.item(i).plan\_data});**

**console.log("saved data res.rows.item(i).plan\_data", res.rows.item(i).plan\_data);**

**console.log("saved data res.rows.item(i).plan\_data str", JSON.stringify(res.rows.item(i).plan\_data));**

**console.log("saved data res.rows.item(i).plan\_data parse", JSON.parse(res.rows.item(i).plan\_data));**

**}**

**console.log("saved data in array", this.expenses);**

**console.log("saved data in array str", JSON.stringify(this.expenses));**

**}).catch(e => console.log(e));**

**// db.executeSql('SELECT \* FROM TripTbl WHERE plan\_id="5" ', [])**

**// .then(res => {**

**// var plan\_data\_local = [];**

**// for(var i=0; i<res.rows.length; i++) {**

**// plan\_data\_local.push({rowid:res.rows.item(i).rowid,plan\_id:res.rows.item(i).plan\_id,plan\_data:res.rows.item(i).plan\_data})**

**// }**

**// console.log("saved data in array plan\_data\_local", plan\_data\_local);**

**// console.log("saved data in array plan\_data\_local str", JSON.stringify(plan\_data\_local));**

**// }).catch(e => console.log(e));**

**// db.executeSql('SELECT plan\_id FROM TripTbl', [])**

**// .then(res => {**

**// var plan\_id\_local=[];**

**// for(var i=0; i<res.rows.length; i++) {**

**// plan\_id\_local.push({plan\_id:res.rows.item(i).plan\_id})**

**// }**

**// console.log("plan\_id\_local data in array", plan\_id\_local);**

**// })**

**}).catch(e => console.log(e));**

**}**

**saveData() {**

**this.sqlite.create({**

**name: 'ionicdb.db',**

**location: 'default'**

**}).then((db: SQLiteObject) => {**

**db.executeSql('CREATE TABLE IF NOT EXISTS TripTbl(rowid INTEGER PRIMARY KEY, plan\_id TEXT, plan\_data TEXT)', [])**

**.then(res => console.log('Executed SQL tbl created'))**

**.catch(e => console.log(e));**

**//db.executeSql('INSERT INTO TripTbl VALUES(NULL,\''+ this.data.plan\_id +'\',\''+ JSON.stringify(this.data)+'\')',[])**

**db.executeSql('INSERT INTO TripTbl VALUES(NULL,?,?)',[this.data.plan\_id,this.replaceSigleComma(JSON.stringify(this.data))])**

**.then(res => {**

**console.log("Data inserted ",res);})**

**.catch(e => {**

**console.log("Data not inserted ",e);});**

**}).catch(e => {**

**console.log("db not found",e);});**

**}**

**DeleteData() {**

**this.sqlite.create({**

**name: 'ionicdb.db',**

**location: 'default'**

**}).then((db: SQLiteObject) => {**

**db.executeSql('DELETE FROM TripTbl WHERE plan\_id = "69"',[])**

**.then(res => {**

**console.log("Data deleted ",res);})**

**.catch(e => {**

**console.log("Data not deleted ",e);});**

**}).catch(e => {**

**console.log("deleted db not found",e);});**

**}**

**UpdateData() {**

**this.sqlite.create({**

**name: 'ionicdb.db',**

**location: 'default'**

**}).then((db: SQLiteObject) => {**

**db.executeSql('UPDATE TripTbl SET plan\_data=\''+ this.replaceSigleComma(JSON.stringify(this.data))+'\' WHERE plan\_id = "5"',[])**

**.then(res => {**

**console.log("Data UPDATE ",res);})**

**.catch(e => {**

**console.log("Data not UPDATE ",e);});**

**}).catch(e => {**

**console.log("UPDATE db not found",e);});**

**}**

**DropTable(){**

**this.sqlite.create({**

**name: 'ionicdb.db',**

**location: 'default'**

**}).then((db: SQLiteObject) => {**

**db.executeSql('DROP TABLE TripTbl').then(res=>{**

**console.log("DROP TABLE TripTbl", res );**

**}**

**);**

**}).catch(e => console.log(e));**

**}**

**}**