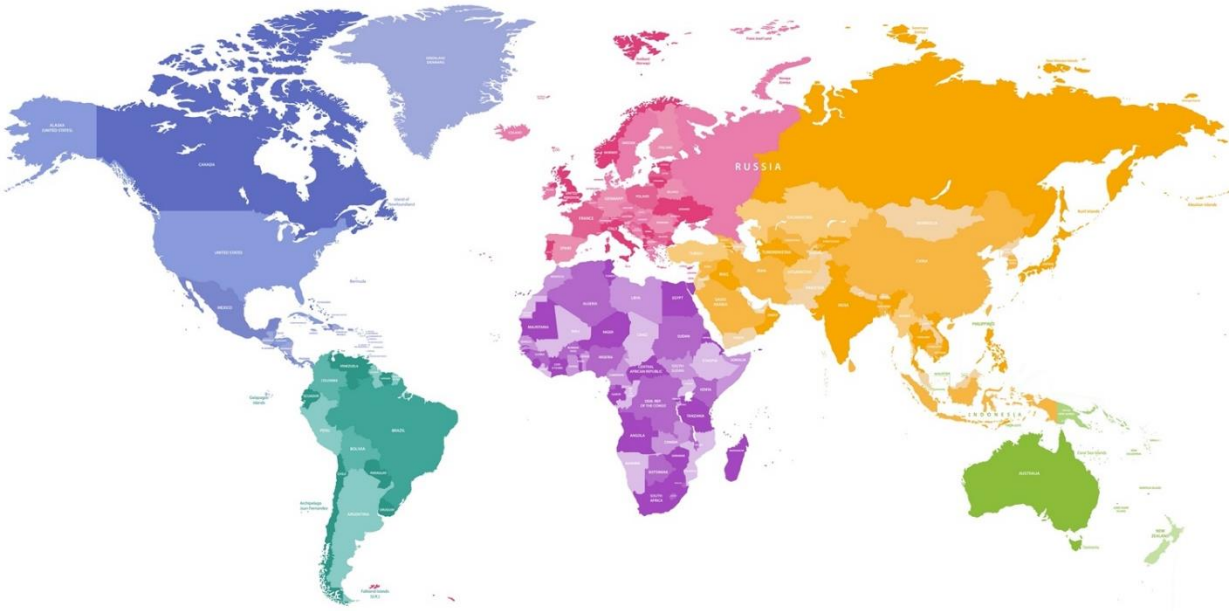


SkillAssure Discoveri

SQL Hands-on Nugget

Goal:

To understand how to execute basic SQL queries and retrieve data from the Database based on certain conditions.

05	17
Activities	Steps

Activity-A: Understanding the SQL Landscape Elements

Step-A.1: Observe the different types of SQL Queries (INSERT, CREATE, SELECT, DROP) from the Query provided for Database Restoration in the "**HeartiHealth DB Script**" file.

HeartiHealth DB Schema Script - Notepad

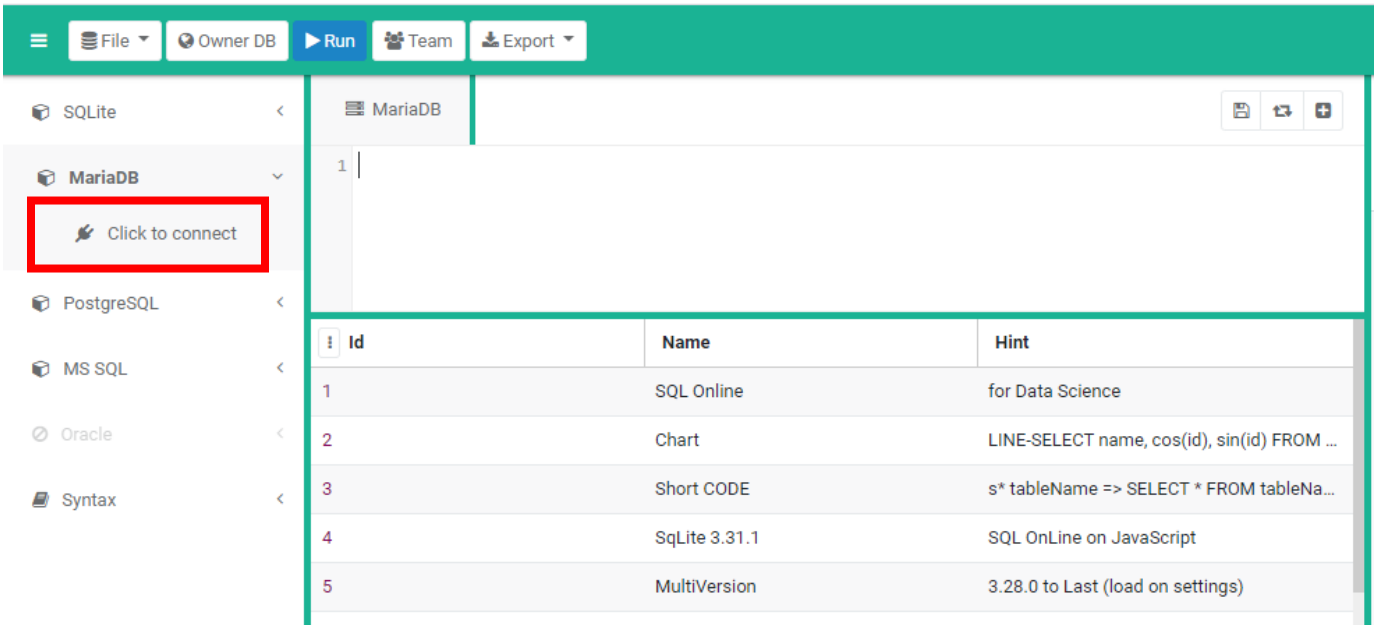
File Edit Format View Help

```
CREATE TABLE IF NOT EXISTS  `memberinfo` (
  `member_id` VARCHAR(45) NOT NULL,
  `username` VARCHAR(45) NULL DEFAULT NULL,
  `firstname` VARCHAR(45) NULL DEFAULT NULL,
  `lastname` VARCHAR(45) NULL DEFAULT NULL,
  `age` INT(11) NULL DEFAULT NULL,
  `gender` VARCHAR(45) NULL DEFAULT NULL,
  `email` VARCHAR(45) NULL DEFAULT NULL,
  `phonenumber` BIGINT(100) NULL DEFAULT NULL,
  PRIMARY KEY (`member_id`))
ENGINE = InnoDB
DEFAULT CHARACTER SET = latin1;


-- -----------------------------------------------------
-- Table  `addressinfo`
-- -----------------------------------------------------
CREATE TABLE IF NOT EXISTS  `addressinfo` (
  `address_id` VARCHAR(45) NOT NULL,
  `city` VARCHAR(45) NULL DEFAULT NULL,
  `state` VARCHAR(45) NULL DEFAULT NULL,
  `country` VARCHAR(45) NULL DEFAULT NULL,
  `pincode` VARCHAR(45) NULL DEFAULT NULL,
  `memberinfo_member_id` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`address_id`, `memberinfo_member_id`),
  INDEX `fk_addressinfo_memberinfo_idx` (`memberinfo_member_id` ASC),
  CONSTRAINT `fk_addressinfo_memberinfo`
    FOREIGN KEY (`memberinfo_member_id`)
    REFERENCES  `memberinfo` (`member_id`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB
DEFAULT CHARACTER SET = latin1;


-- -----------------------------------------------------
```

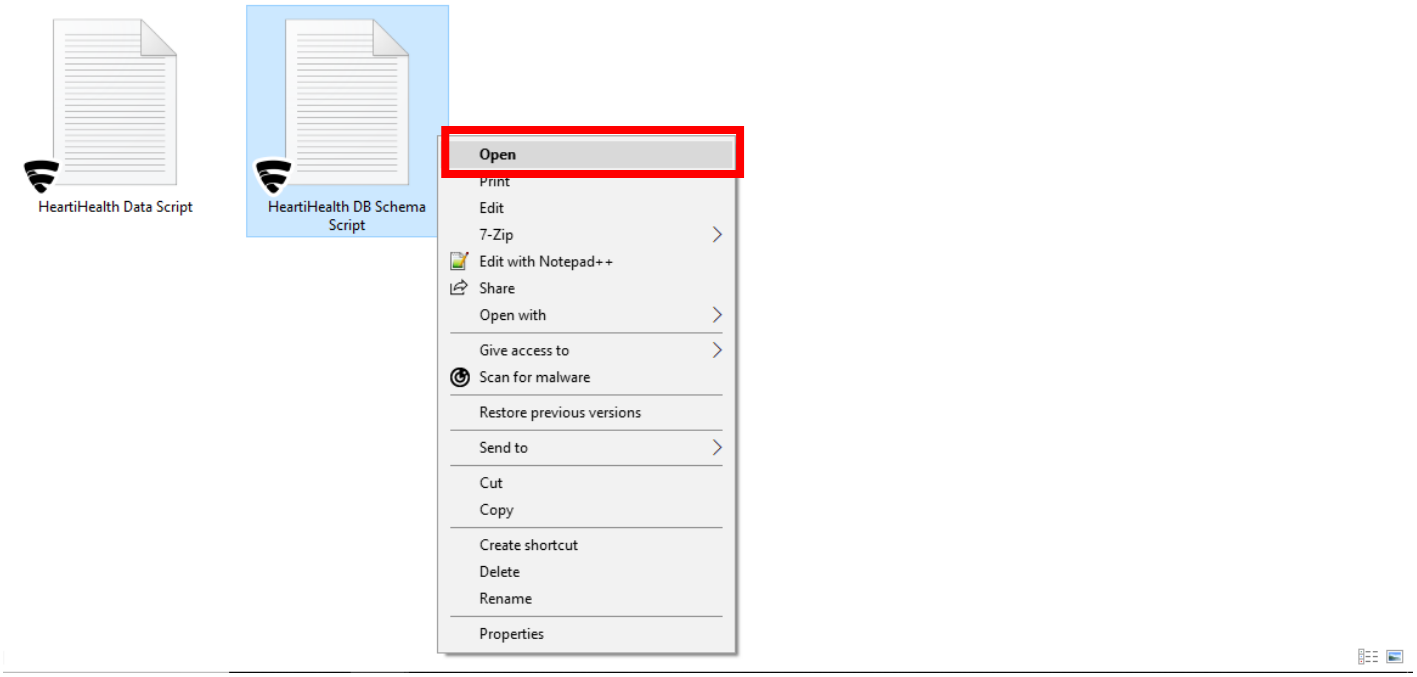
Activity-B: Get all the predictions for the day and sort it with the highest percentage of probability at the top

Step-B.1: Open Chrome Browser and open the following URL: https://sqliteonline.com/

Step-B.2: Expand MariaDB and click on **"Click to Connect"** as shown below:

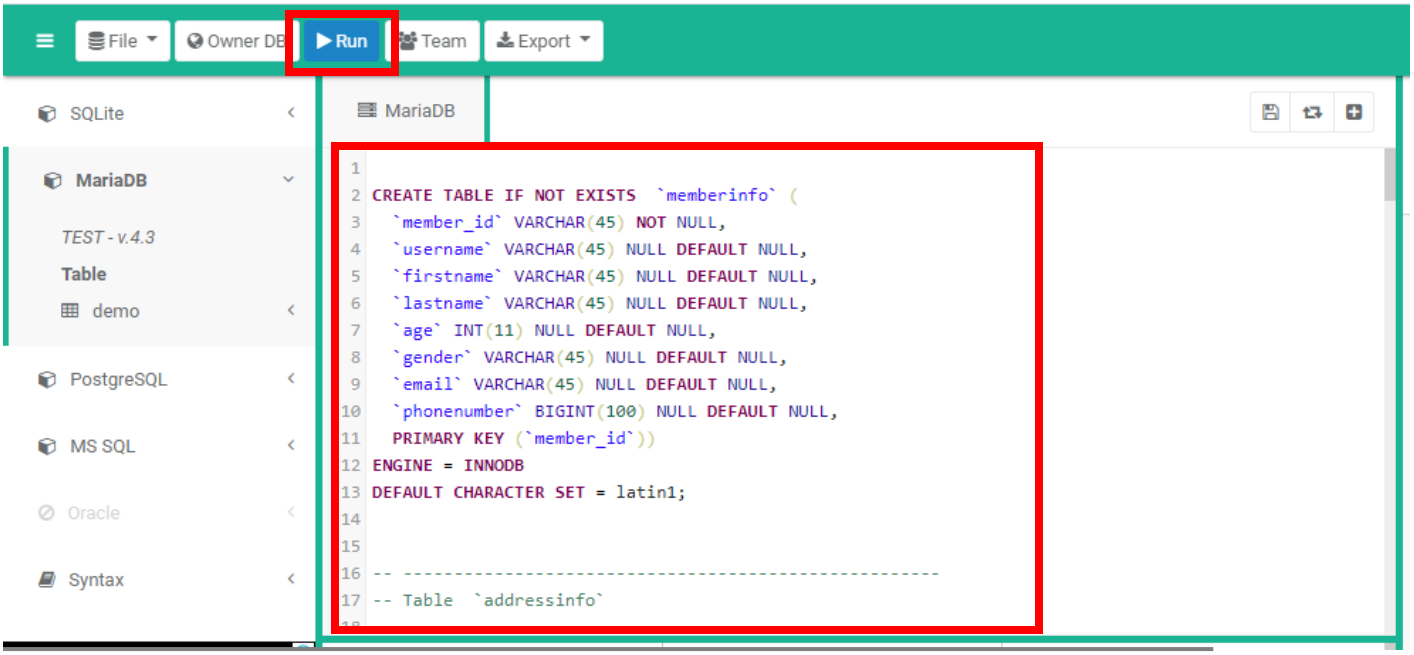


Step-B.3: Right click on the **"HeartiHealth DB Schema Script"** file, from your Downloads folder and open it as shown:

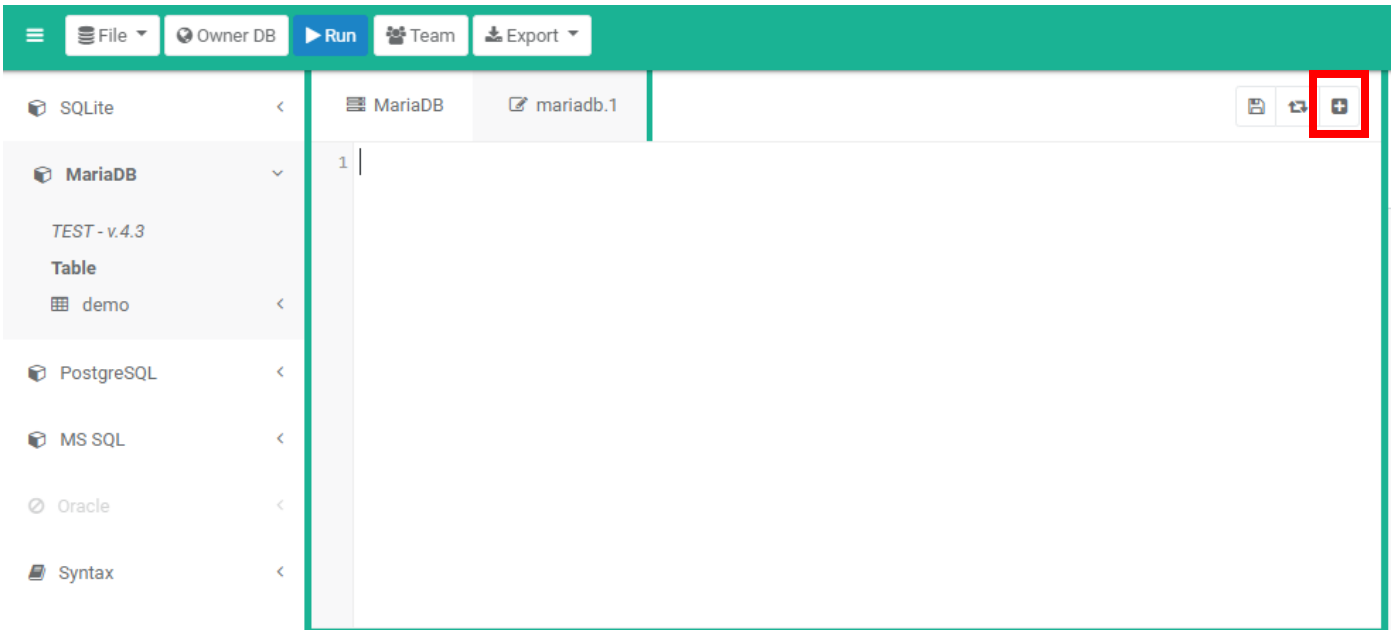


Step-B.4: Press **Ctrl+A** to select the entire script and **Ctrl+C** to copy the Script.

Step-B.5: Paste the entire script in the Editor by pressing **Ctrl+V** and execute the script by clicking on the Run Button as shown below, to create the Tables.



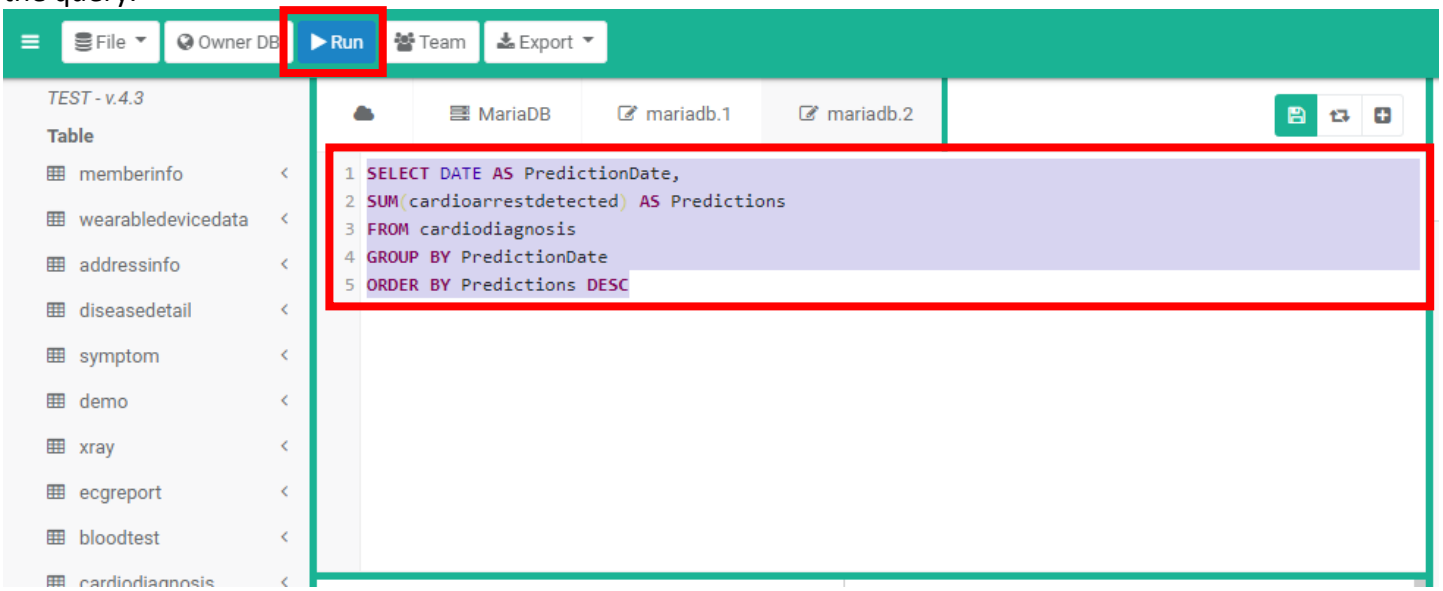
Step-B.6: Open a new Query Editor tab in the MariaDB by clicking on the **Plus(+)** button as shown:



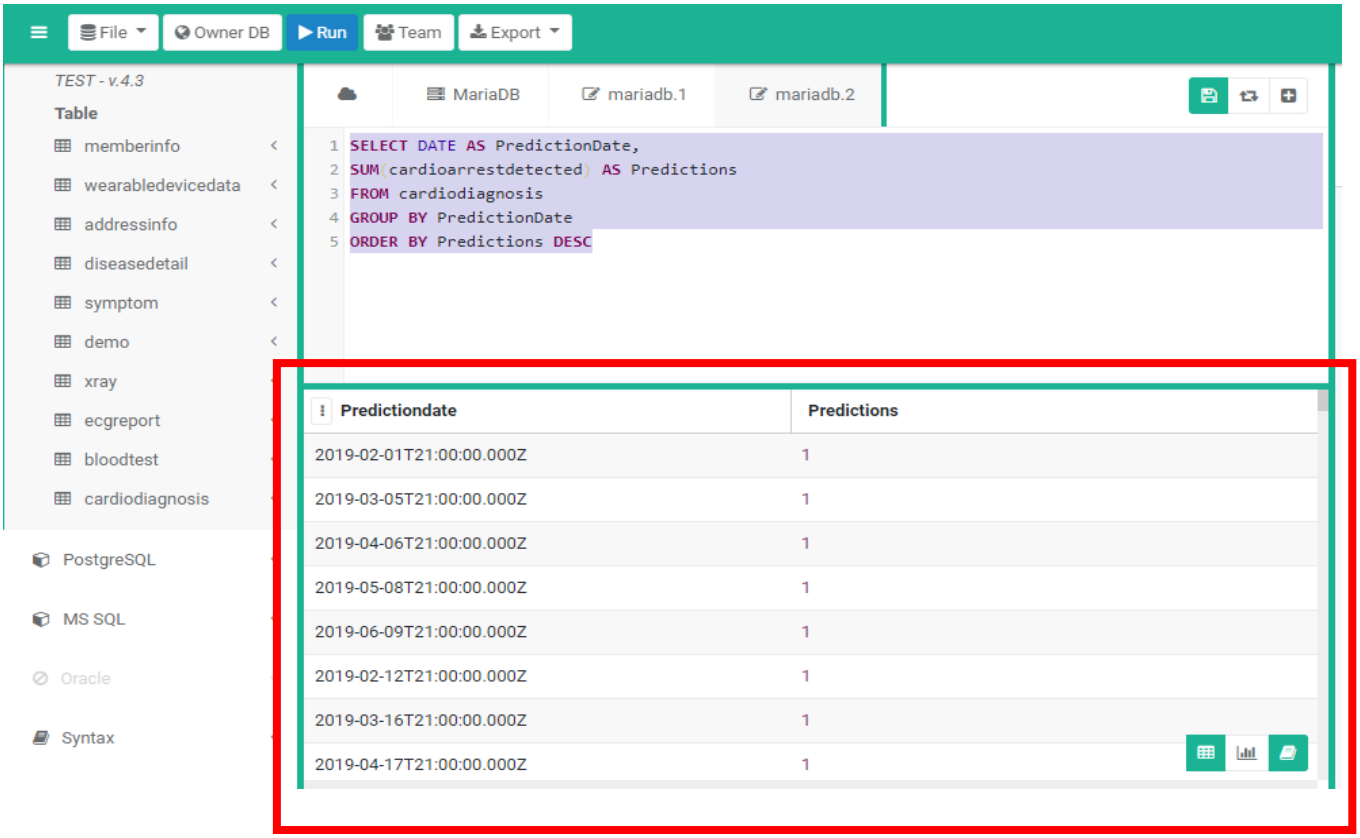
Step-B.7: Open the **"HeartiHealth Data Script"** file, and **select the entire script** and **copy** it like in step B.3 and B.4

Step-B.8: Paste the entire script in the Editor by pressing **Ctrl+V** and execute the script by clicking on the Run Button as shown, to insert data into the Database.

Step-B.9: Open a new Query Editor Tab, and Type the Query given below to get the Predictions day wise and also sort it from Highest to Lowest based in Predictions. Click on Run after writing the query.

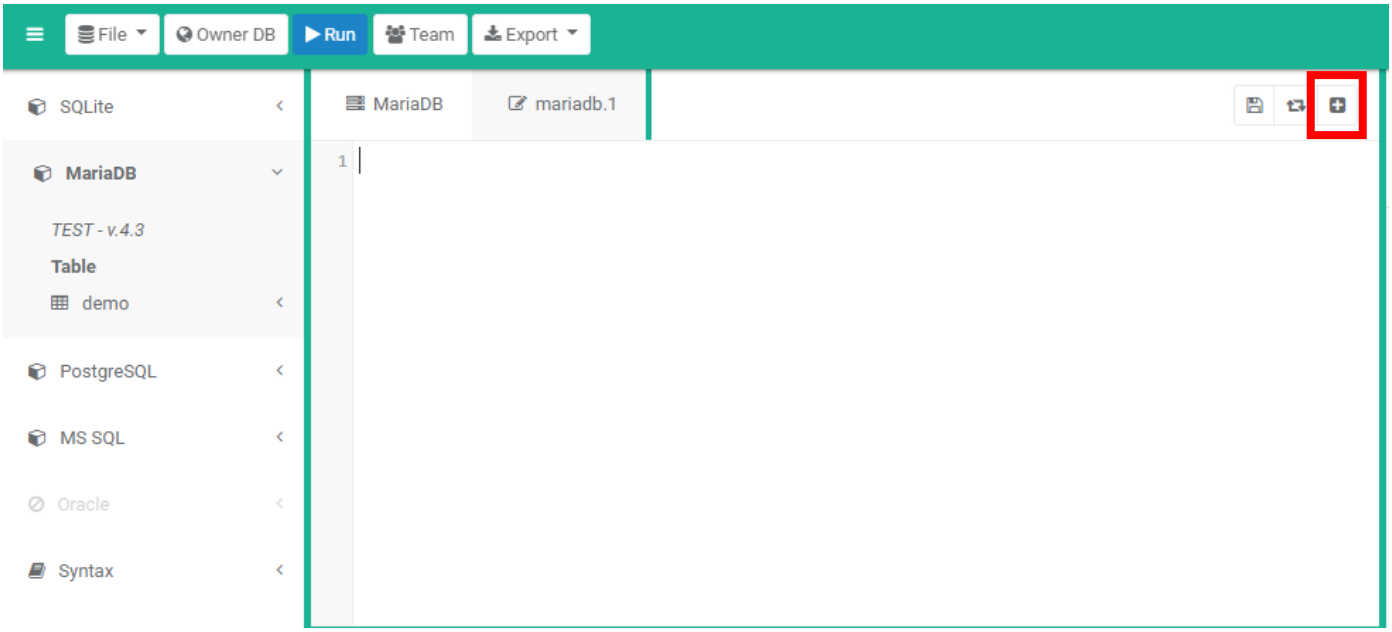


Step-B.10: Observe the Output of the query in the output window after clicking on Run as shown below:



Activity-C: Get all the members who are from "Flora" city.

Step-C.1: Open a new Query Editor tab in the MariaDB by clicking on the **Plus(+)** button as shown:



Step-C.2: Write the following query in the new query editor and execute the query by clicking the Run button.

```
SELECT * FROM
memberinfo member INNER JOIN addressinfo address
ON member.member_id = address.memberinfo_member_id
WHERE address.city='Flora'.
```

Activity-D: Get the total number of bloodtests done for Aisha.

Step-D.1: Open a new Query Editor tab in the MariaDB by clicking on the **Plus(+)** button.

Step-D.2: Write the following query in the new query editor and execute the query.

```
SELECT count(b.blood_id) FROM
bloodtest b inner JOIN cardiodiagnosis c
ON b.cardiodiagnosis_cardio_id = c.cardio_id
inner JOIN memberinfo m
ON c.memberinfo_member_id = m.member_id
WHERE m.firstname='aisha'
GROUP BY b.blood_id
```

Activity-E: Get the xray details of Ajay whose cardio was done on 26th of Jan 2019.

Step-E.1: Open a new Query Editor tab in the MariaDB by clicking on the **Plus(+)** button.

Step-E.2: Write the following query in the new query editor and execute the query.

```
SELECT x.* FROM xray x
JOIN cardiodiagnosis c ON x.cardiodiagnosis_cardio_id=c.cardio_id
JOIN memberinfo m ON c.memberinfo_member_id=m.member_id
WHERE m.firstname='ajay' AND date(c.date)='2019-01-26'
```

Congratulations!! You have successfully executed queries to fetch the data from the database for HeartiHealth Application.
