Deliverable 3: Queries to Modify and Test your Database

Write the following queries, turn in screen shots of code and execution (results), plus sql script file:

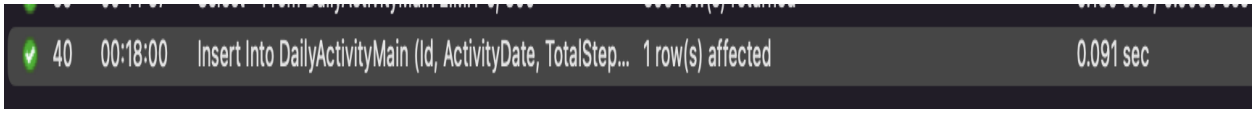
1. Create 3 SQL queries (Test with good and bad data. Show any success messages and errors)
    1. To insert data into a new row into an existing table.
    2. To Update data in a existing row in a table.
    3. To Delete data a row in a existing table.
2. create 1 function that returns a Value. The function should accept at least 1 parameter. Test the function (show any success and errors)
3. create 1 stored procedure that returns a aggregate result (sum, min, max, etc.) given some other Data provided. Test the procedure (show any success and errors)

1 .1 To insert data into a new row into an existing table.

With good data

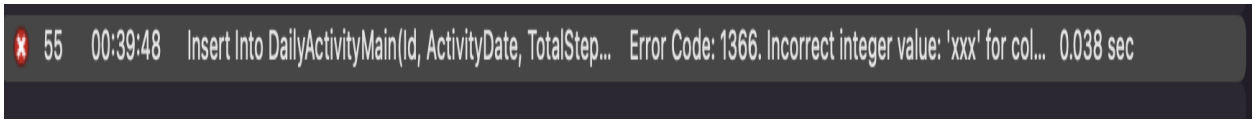
```
-- To insert data into a new row into an existing table.
Insert Into DailyActivityMain(Id, VeryactiveId,ActivityDate,ModeratelyActiveId,LightlyActiveId, TotalSteps, TotalDistance, Calories)
Values ('15023985567', '4011', '4/22/2016', '3011', '1011', '12764', '8.130000114', '3000'
);
```

Execution:



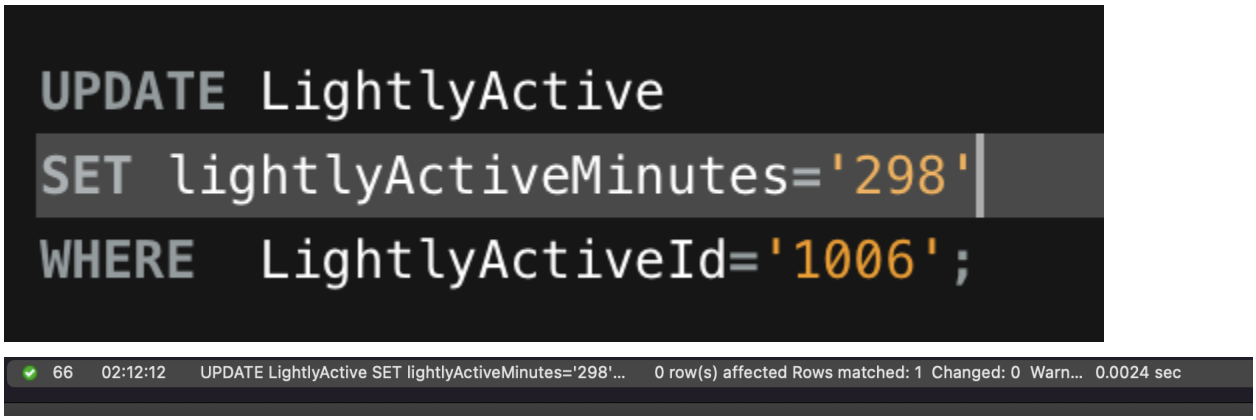
With Bad data:

```
Insert Into DailyActivityMain(Id, VeryactiveId,ActivityDate,ModeratelyActiveId,LightlyActiveId, TotalSteps, TotalDistance, Calories)
Values ('15023985567', '4011', "xxxx", '3011', '1011', '12764', '8.130000114', '3000');
```



2. To Update data in a existing row in a table

With Good Data:



With Bad data:

1.3 . To Delete data a row in a existing table

With Good Data:

```
-- To Delete data a row in a existing table.
Select * From ModeratelyActive;
DELETE FROM ModeratelyActive
WHERE ModeratelyActiveId IN ('3007');
```

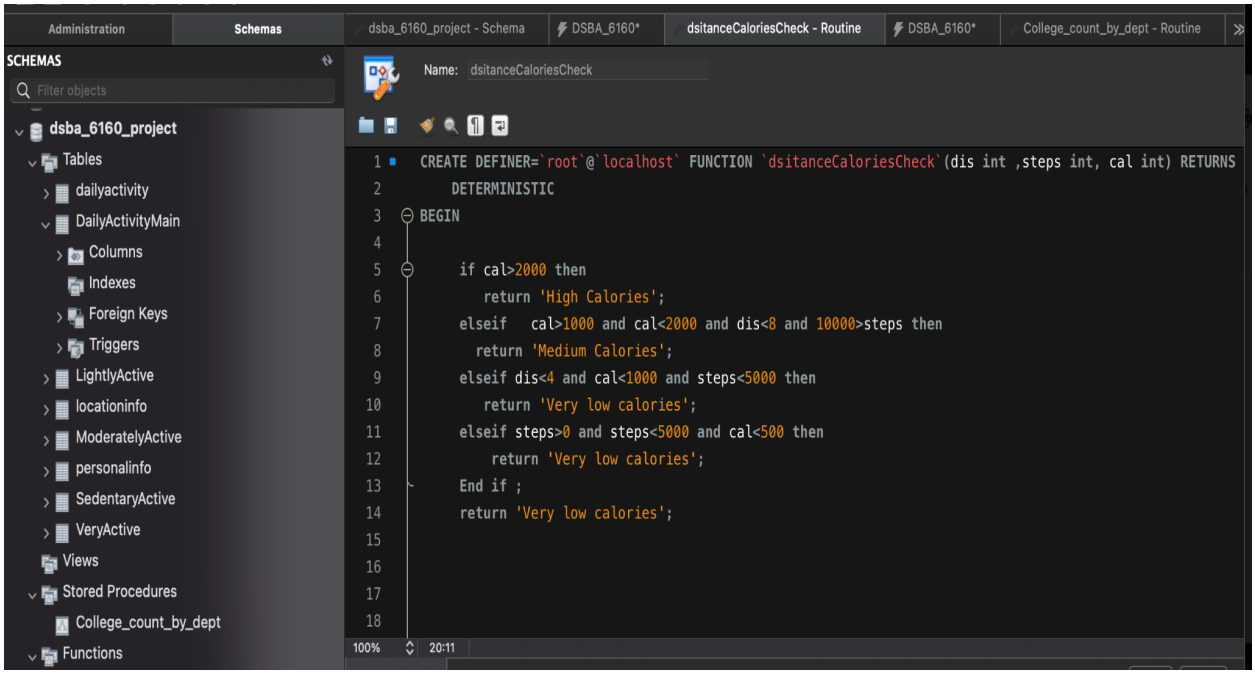
6	00:55:04	DELETE FROM ModeratelyActive WHERE Id IN ('150396...	31 row(s) affected	0.038 sec

With Bad data:

```
-- To Delete data a row in a existing table.
Select * From ModeratelyActive;
DELETE FROM ModeratelyActive
WHERE ModeratelyActiveId IN ('ABS');
```

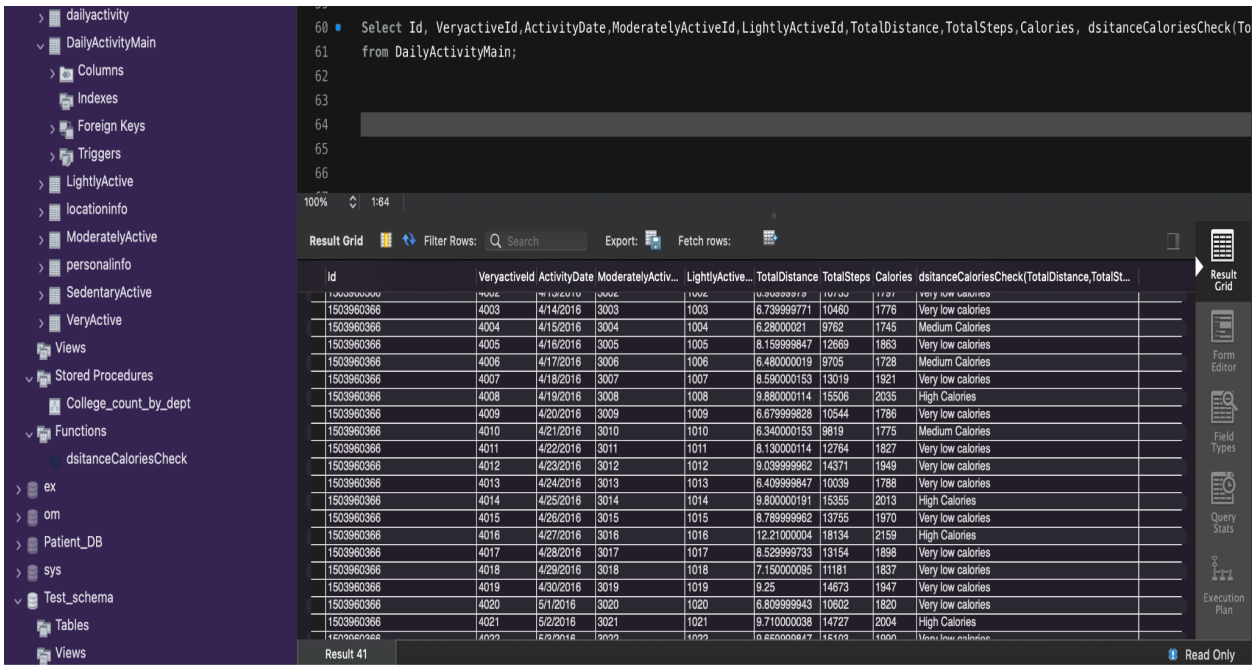
7	00:57:16	DELETE FROM ModeratelyActive WHERE Id IN ('ABS')	Error Code: 1292. Truncated incorrect DOUBLE value:...	0.0092 sec

2. Create Function:
Function Created for distance_steps_check
For certain ranges of calories which generated by distance and steps , a new column is created which have 3 categories as ‘High Calories’, ‘Medium Calories’, ‘Very Low Calories’.



Function created on distance and steps count to check the calories

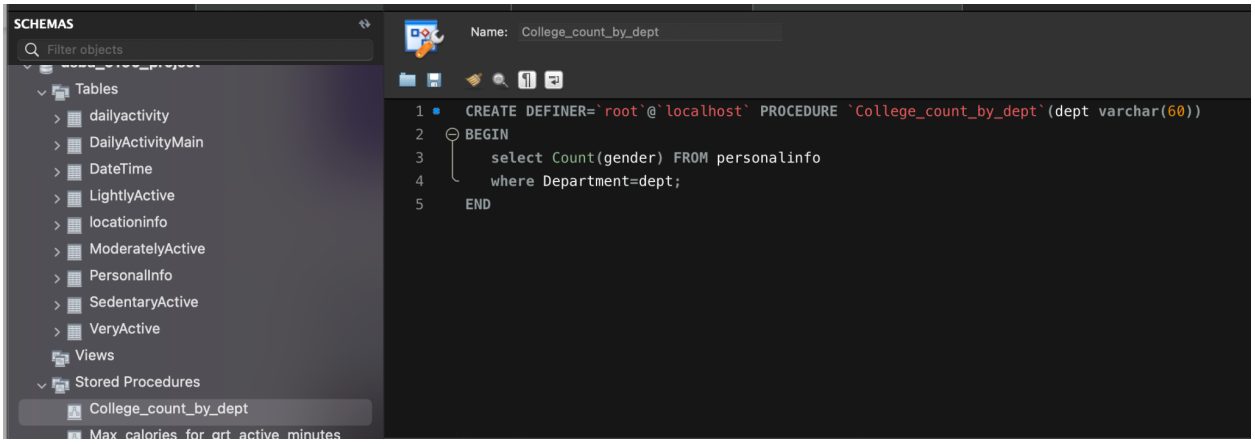
Testing:



Id	VeryactiveId	ActivityDate	ModeratelyActiv...	LightlyActive...	TotalDistance	TotalSteps	Calories	dsitanceCaloriesCheck(TotalDistance,TotalSt...
1503960366	4003	4/14/2016	3003	1003	6.739999771	10460	1776	Very low calories
1503960366	4004	4/15/2016	3004	1004	6.28000021	9762	1745	Medium Calories
1503960366	4005	4/16/2016	3005	1005	8.159999847	12669	1863	Very low calories
1503960366	4006	4/17/2016	3006	1006	6.480000019	9705	1728	Medium Calories
1503960366	4007	4/18/2016	3007	1007	8.590000153	13019	1921	Very low calories
1503960366	4008	4/19/2016	3008	1008	9.860000114	15506	2035	High Calories
1503960366	4009	4/20/2016	3009	1009	6.679999828	10544	1786	Very low calories
1503960366	4010	4/21/2016	3010	1010	6.340000153	9819	1775	Medium Calories
1503960366	4011	4/22/2016	3011	1011	8.130000114	12764	1827	Very low calories
1503960366	4012	4/23/2016	3012	1012	9.039999962	14371	1949	Very low calories
1503960366	4013	4/24/2016	3013	1013	6.409999847	10039	1788	Very low calories
1503960366	4014	4/25/2016	3014	1014	9.800000191	15355	2013	High Calories
1503960366	4015	4/26/2016	3015	1015	8.789999962	13755	1970	Very low calories
1503960366	4016	4/27/2016	3016	1016	12.21000004	18134	2159	High Calories
1503960366	4017	4/28/2016	3017	1017	8.529999733	13154	1898	Very low calories
1503960366	4018	4/29/2016	3018	1018	7.150000095	11181	1837	Very low calories
1503960366	4019	4/30/2016	3019	1019	9.25	14673	1947	Very low calories
1503960366	4020	5/1/2016	3020	1020	6.809999943	10602	1820	Very low calories
1503960366	4021	5/2/2016	3021	1021	9.710000038	14727	2004	High Calories

Stored Procedures :

Created 1 stored procedures to find
College count by giving Department as input ,



Testing: