Smart Farming Sensor Data for Yield Prediction

By Nikita Shirdhankar

📊 Dataset Overview

Purpose & Context:
The dataset simulates real-world smart farming operations. It integrates data collected from **IoT sensors** and **satellite imagery** to provide insights into the variables that influence crop yield. The simulation is designed to support understanding how both environmental factors and operational practices impact agricultural outcomes.

Geographical Scope:
The data spans **500 farms** located in diverse regions, including notable agricultural areas in **India**, the **USA**, and **Africa**.

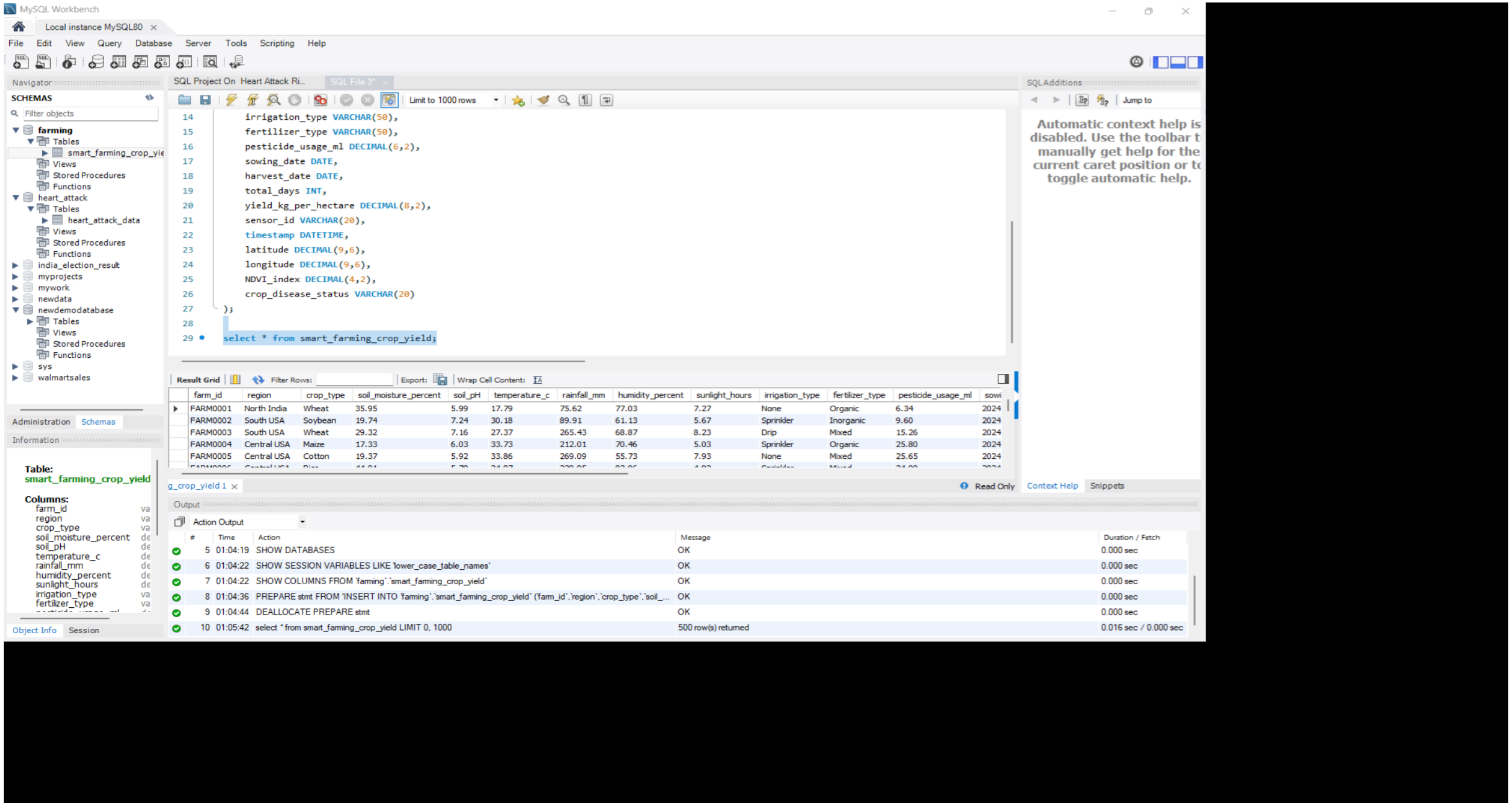
Rows: 500
Columns: 22

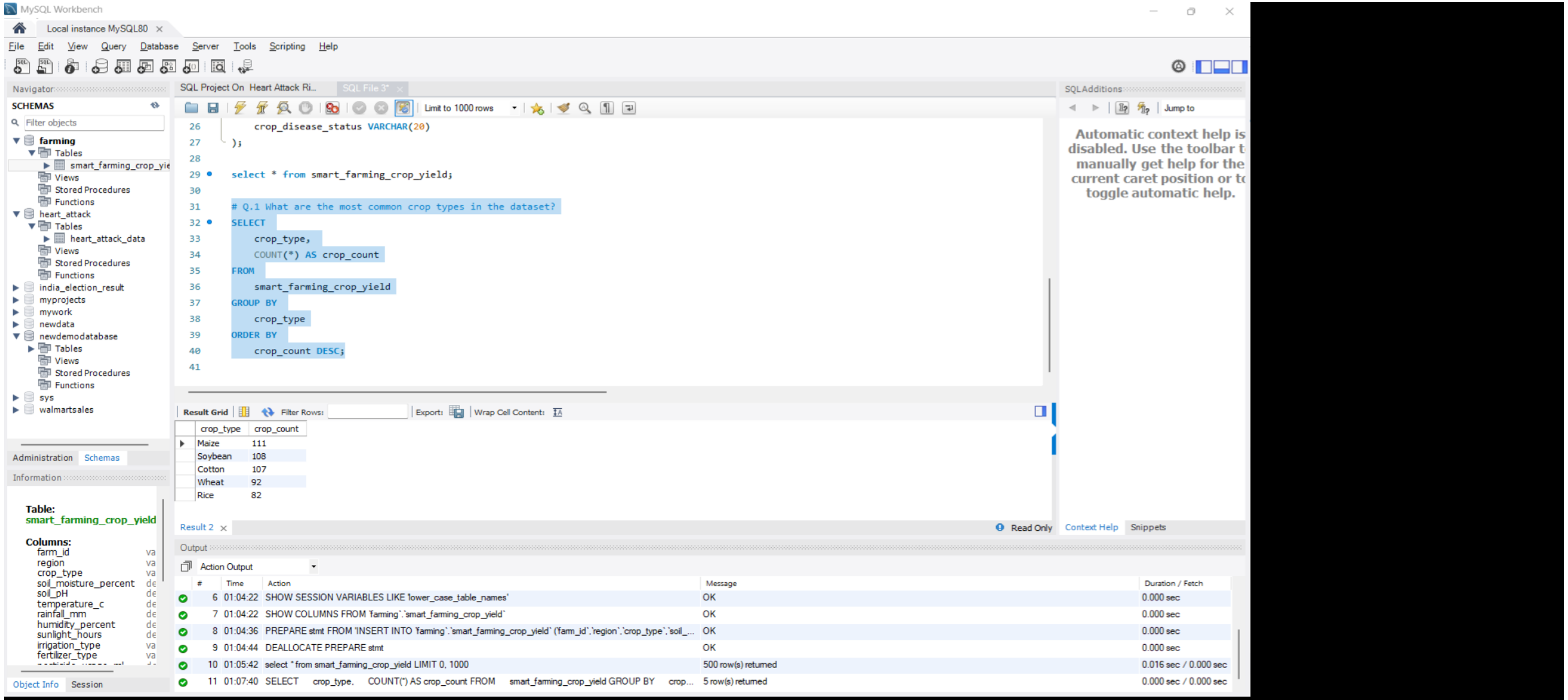
File Size: ~130 KB

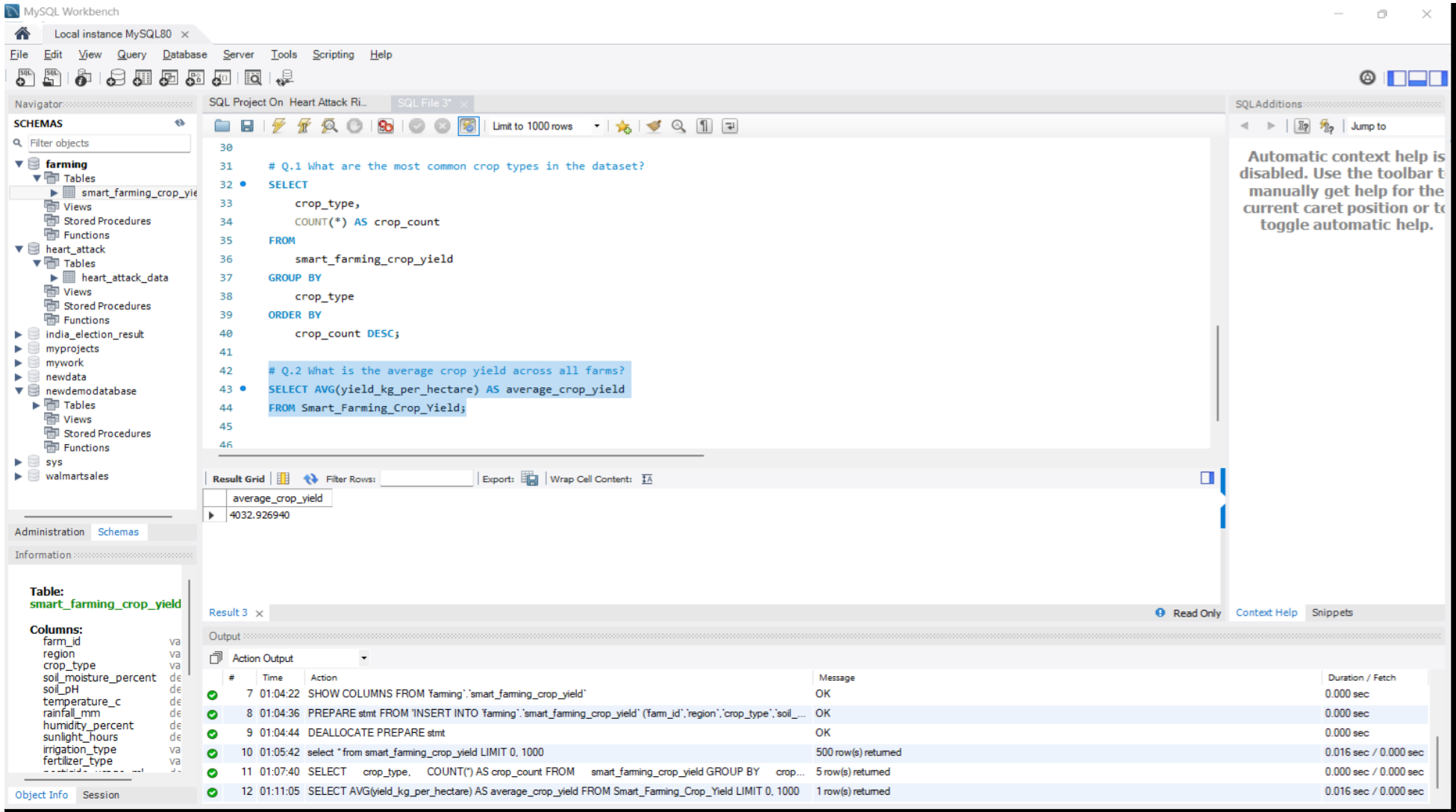
Missing Values: None

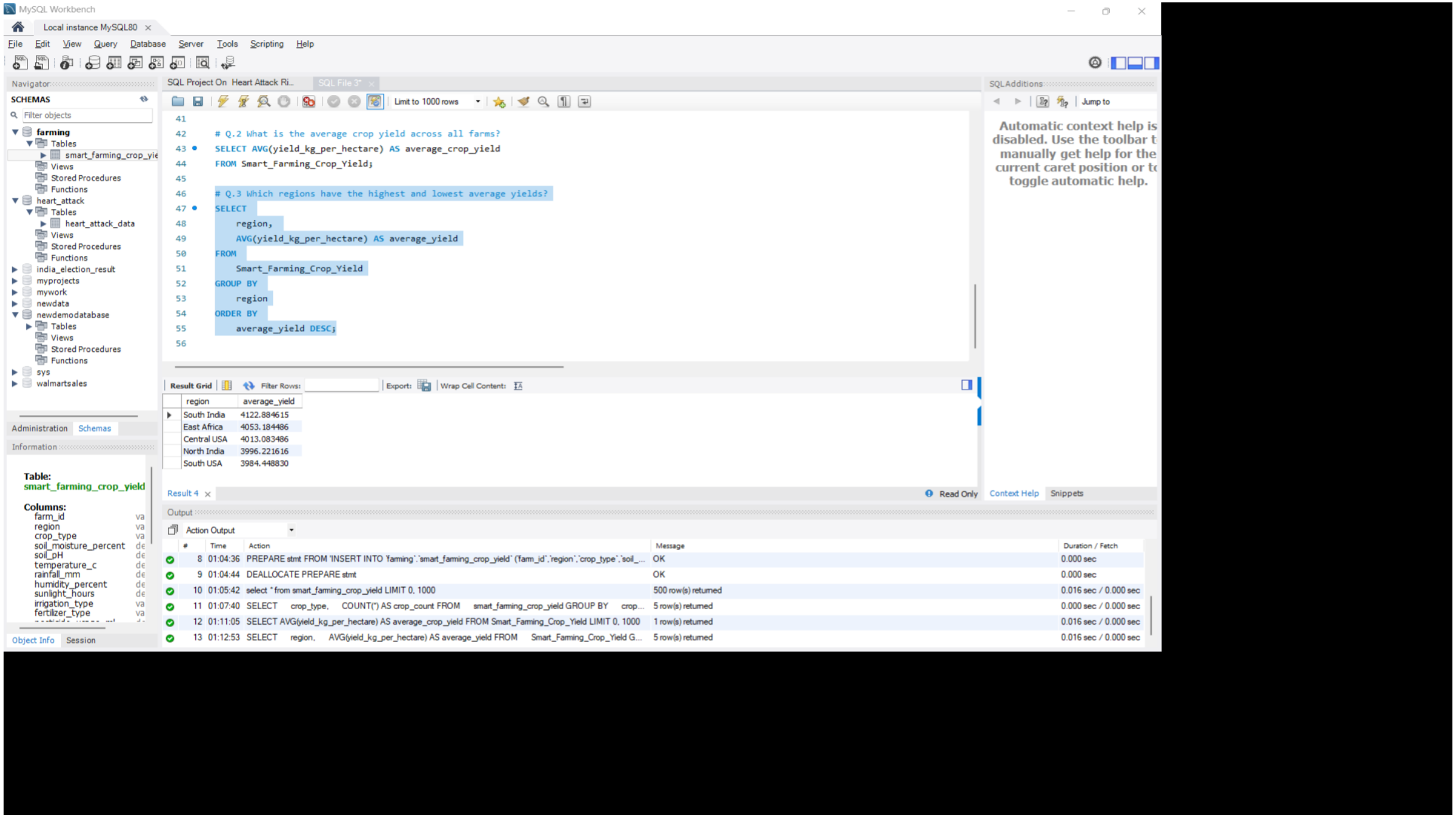
Duplicates: None

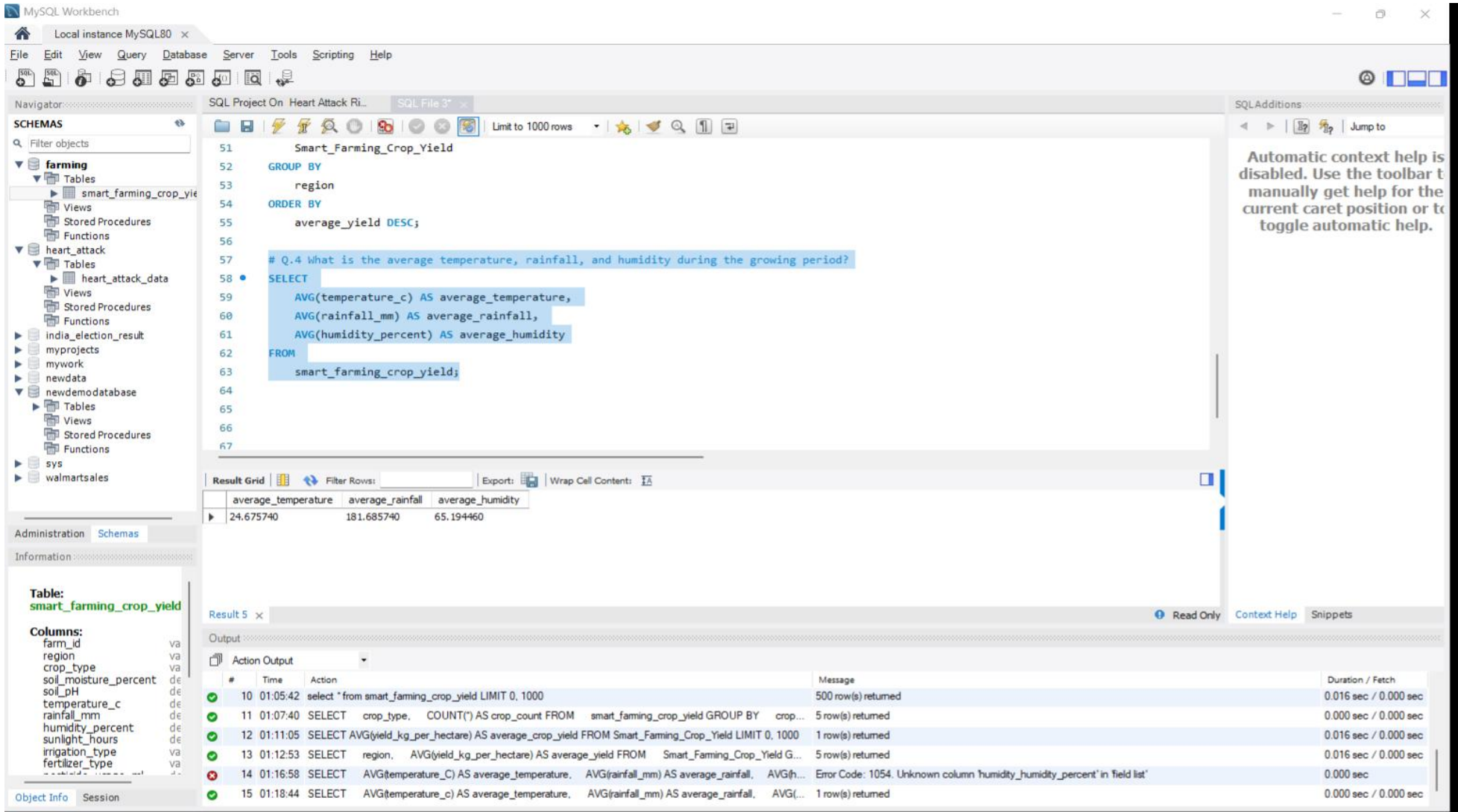
Author of Data:
The dataset was created by **Atharva Soundankar**

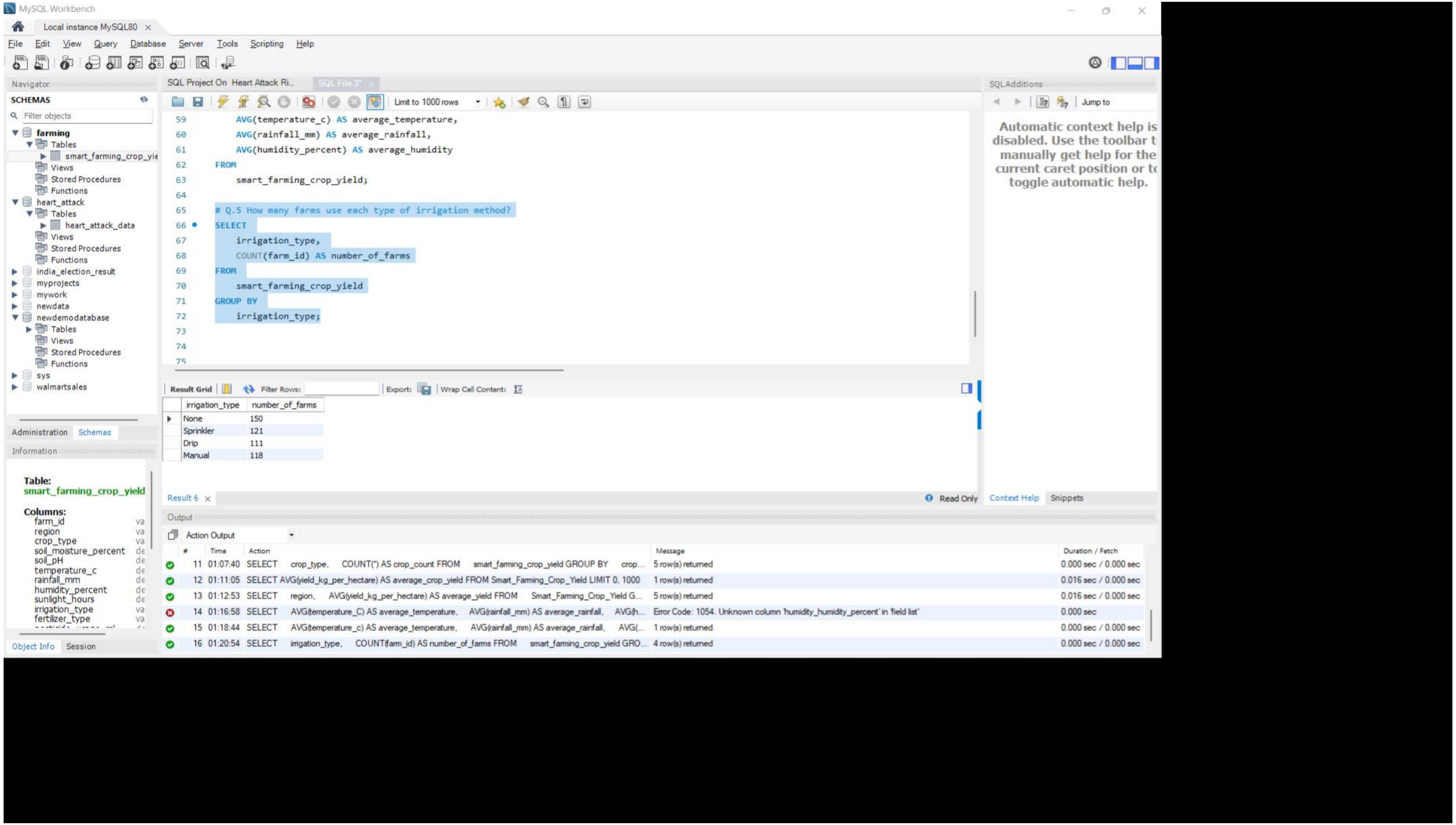

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
14 irrigation_type VARCHAR(50),
15 fertilizer_type VARCHAR(50),
16 pesticide_usage_ml DECIMAL(6,2),
17 sowing_date DATE,
18 harvest_date DATE,
19 total_days INT,
20 yield_kg_per_hectare DECIMAL(8,2),
21 sensor_id VARCHAR(20),
22 timestamp DATETIME,
23 latitude DECIMAL(9,6),
24 longitude DECIMAL(9,6),
25 NDVI_index DECIMAL(4,2),
26 crop_disease_status VARCHAR(20)
27);
28
29 select * from smart_farming_crop_yield;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
farm_id region crop_type soil_moisture_percent soil_pH temperature_c rainfall_mm humidity_percent sunlight_hours irrigation_type fertilizer_type pesticide_usage_ml sowi
FARM0001 North India Wheat 35.95 5.99 17.79 75.62 77.03 7.27 None Organic 6.34 2024
FARM0002 South USA Soybean 19.74 7.24 30.18 89.91 61.13 5.67 Sprinkler Inorganic 9.60 2024
FARM0003 South USA Wheat 29.32 7.16 27.37 265.43 68.87 8.23 Drip Mixed 15.26 2024
FARM0004 Central USA Maize 17.33 6.03 33.73 212.01 70.46 5.03 Sprinkler Organic 25.80 2024
FARM0005 Central USA Cotton 19.37 5.92 33.86 269.09 55.73 7.93 None Mixed 25.65 2024
g_crop_yield 1
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
5 01:04:19 SHOW DATABASES OK 0.000 sec
6 01:04:22 SHOW SESSION VARIABLES LIKE 'lower_case_table_names' OK 0.000 sec
7 01:04:22 SHOW COLUMNS FROM 'farming'.'smart_farming_crop_yield' OK 0.000 sec
8 01:04:36 PREPARE stmt FROM 'INSERT INTO 'farming'.'smart_farming_crop_yield' ('farm_id','region','crop_type','soil_... OK 0.000 sec
9 01:04:44 DEALLOCATE PREPARE stmt OK 0.000 sec
10 01:05:42 select * from smart_farming_crop_yield LIMIT 0, 1000 500 row(s) returned 0.016 sec / 0.000 sec

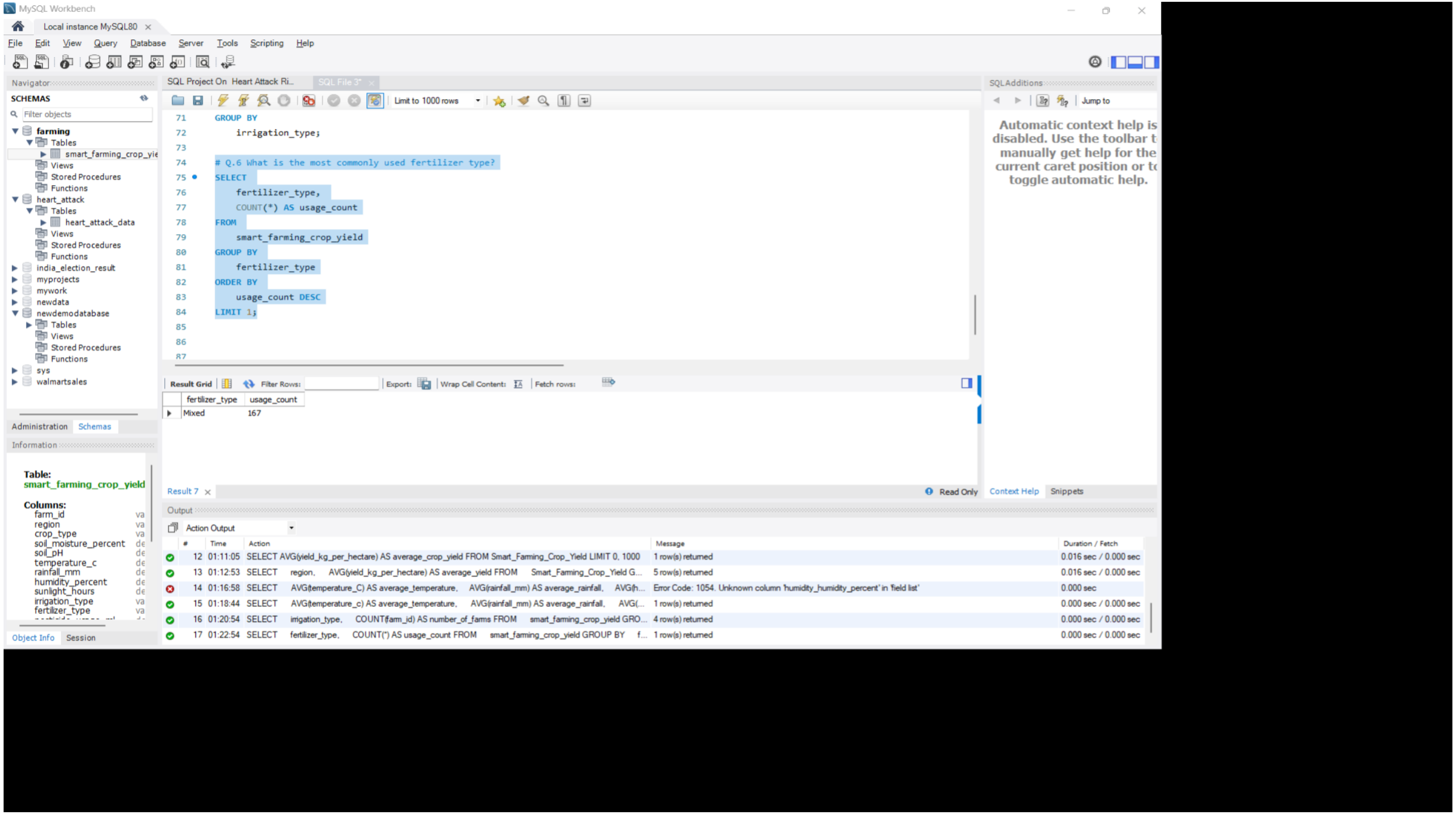

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
26 crop_disease_status VARCHAR(20)
27);
28
29 select * from smart_farming_crop_yield;
30
31 # Q.1 What are the most common crop types in the dataset?
32 SELECT
33 crop_type,
34 COUNT(*) AS crop_count
35 FROM
36 smart_farming_crop_yield
37 GROUP BY
38 crop_type
39 ORDER BY
40 crop_count DESC;
41
Result Grid Filter Rows: Export: Wrap Cell Content:
crop_type crop_count
Maize 111
Soybean 108
Cotton 107
Wheat 92
Rice 82
Result 2
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
6 01:04:22 SHOW SESSION VARIABLES LIKE 'lower_case_table_names' OK 0.000 sec
7 01:04:22 SHOW COLUMNS FROM 'farming'.'smart_farming_crop_yield' OK 0.000 sec
8 01:04:36 PREPARE stmt FROM 'INSERT INTO 'farming'.'smart_farming_crop_yield' ('farm_id','region','crop_type','soil_... OK 0.000 sec
9 01:04:44 DEALLOCATE PREPARE stmt OK 0.000 sec
10 01:05:42 select * from smart_farming_crop_yield LIMIT 0, 1000 500 row(s) returned 0.016 sec / 0.000 sec
11 01:07:40 SELECT crop_type, COUNT(*) AS crop_count FROM smart_farming_crop_yield GROUP BY crop... 5 row(s) returned 0.000 sec / 0.000 sec

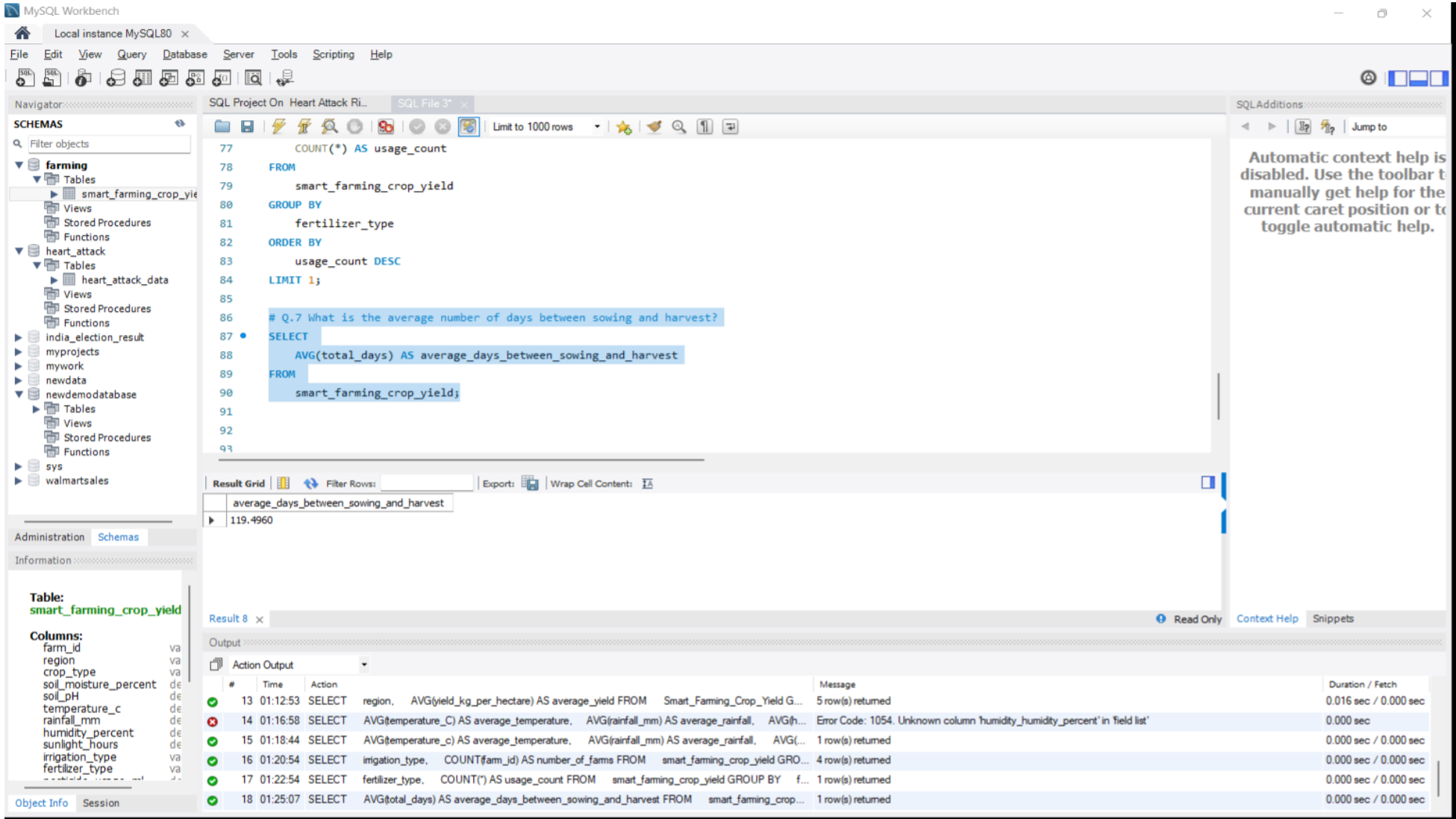

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
30
31 # Q.1 What are the most common crop types in the dataset?
32 SELECT
33 crop_type,
34 COUNT(*) AS crop_count
35 FROM
36 smart_farming_crop_yield
37 GROUP BY
38 crop_type
39 ORDER BY
40 crop_count DESC;
41
42 # Q.2 What is the average crop yield across all farms?
43 SELECT AVG(yield_kg_per_hectare) AS average_crop_yield
44 FROM Smart_Farming_Crop_Yield;
45
46
Result Grid Filter Rows: Export: Wrap Cell Content:
average_crop_yield
4032.926940
Result 3
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
7 01:04:22 SHOW COLUMNS FROM `farming`.`smart_farming_crop_yield` OK 0.000 sec
8 01:04:36 PREPARE stmt FROM 'INSERT INTO `farming`.`smart_farming_crop_yield` (`farm_id`,`region`,`crop_type`,`soil_... OK 0.000 sec
9 01:04:44 DEALLOCATE PREPARE stmt OK 0.000 sec
10 01:05:42 select * from smart_farming_crop_yield LIMIT 0, 1000 500 row(s) returned 0.016 sec / 0.000 sec
11 01:07:40 SELECT crop_type, COUNT(*) AS crop_count FROM smart_farming_crop_yield GROUP BY crop... 5 row(s) returned 0.000 sec / 0.000 sec
12 01:11:05 SELECT AVG(yield_kg_per_hectare) AS average_crop_yield FROM Smart_Farming_Crop_Yield LIMIT 0, 1000 1 row(s) returned 0.016 sec / 0.000 sec

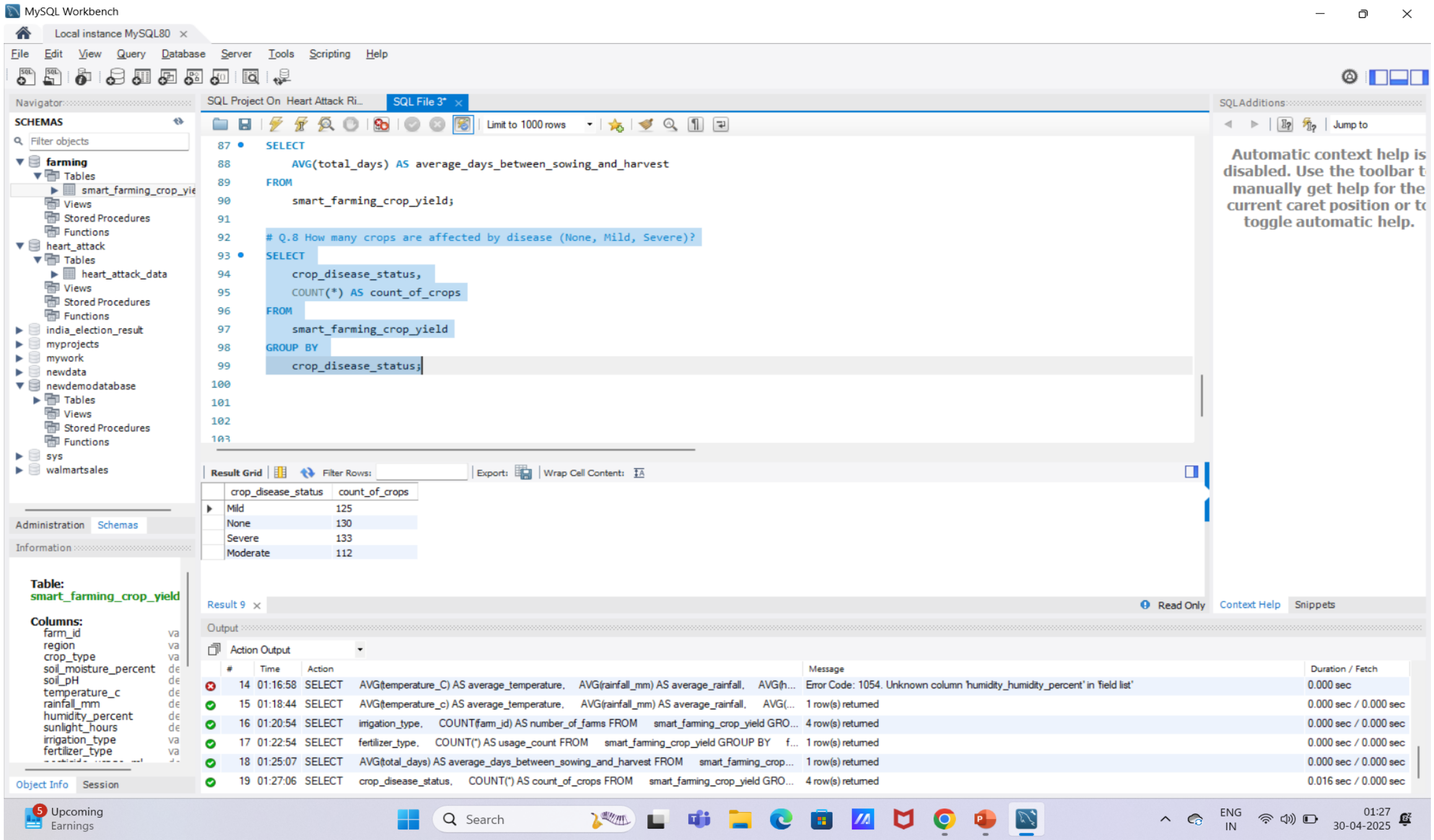

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
41
42 # Q.2 What is the average crop yield across all farms?
43 SELECT AVG(yield_kg_per_hectare) AS average_crop_yield
44 FROM Smart_Farming_Crop_Yield;
45
46 # Q.3 Which regions have the highest and lowest average yields?
47 SELECT
48 region,
49 AVG(yield_kg_per_hectare) AS average_yield
50 FROM
51 Smart_Farming_Crop_Yield
52 GROUP BY
53 region
54 ORDER BY
55 average_yield DESC;
56
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
region average_yield
South India 4122.884615
East Africa 4053.184486
Central USA 4013.083486
North India 3996.221616
South USA 3984.448830
Result 4
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
8 01:04:36 PREPARE stmt FROM 'INSERT INTO `farming`.`smart_farming_crop_yield` (`farm_id`,`region`,`crop_type`,`soil_... OK 0.000 sec
9 01:04:44 DEALLOCATE PREPARE stmt OK 0.000 sec
10 01:05:42 select * from smart_farming_crop_yield LIMIT 0, 1000 500 row(s) returned 0.016 sec / 0.000 sec
11 01:07:40 SELECT crop_type, COUNT(*) AS crop_count FROM smart_farming_crop_yield GROUP BY crop... 5 row(s) returned 0.000 sec / 0.000 sec
12 01:11:05 SELECT AVG(yield_kg_per_hectare) AS average_crop_yield FROM Smart_Farming_Crop_Yield LIMIT 0, 1000 1 row(s) returned 0.016 sec / 0.000 sec
13 01:12:53 SELECT region, AVG(yield_kg_per_hectare) AS average_yield FROM Smart_Farming_Crop_Yield G... 5 row(s) returned 0.016 sec / 0.000 sec

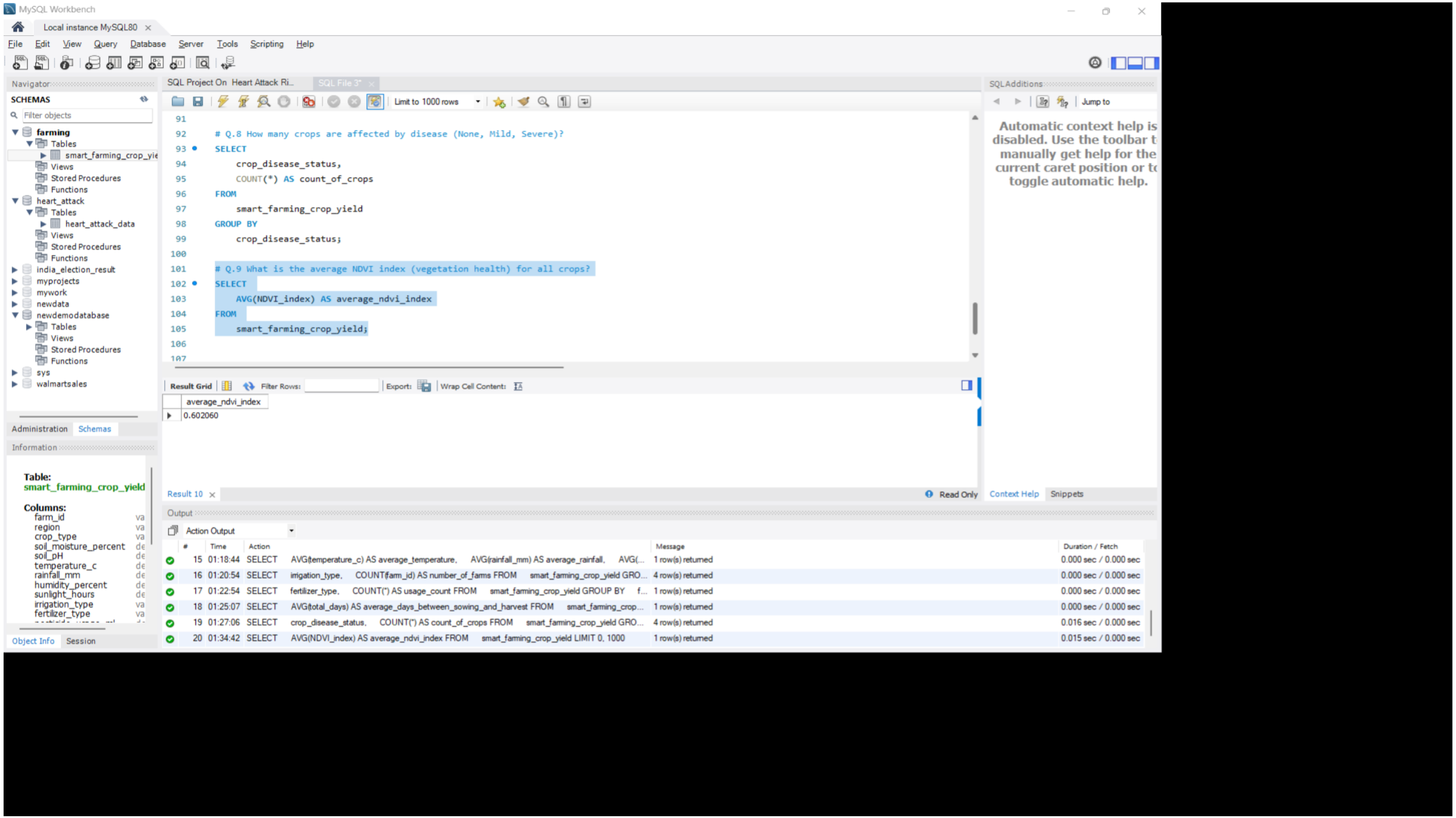

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
51 Smart_Farming_Crop_Yield
52 GROUP BY
53 region
54 ORDER BY
55 average_yield DESC;
56
57 # Q.4 What is the average temperature, rainfall, and humidity during the growing period?
58 SELECT
59 AVG(temperature_c) AS average_temperature,
60 AVG(rainfall_mm) AS average_rainfall,
61 AVG(humidity_percent) AS average_humidity
62 FROM
63 smart_farming_crop_yield;
64
65
66
67
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
average_temperature average_rainfall average_humidity
24.675740 181.685740 65.194460
Result 5
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
10 01:05:42 select * from smart_farming_crop_yield LIMIT 0, 1000 500 row(s) returned 0.016 sec / 0.000 sec
11 01:07:40 SELECT crop_type, COUNT(*) AS crop_count FROM smart_farming_crop_yield GROUP BY crop... 5 row(s) returned 0.000 sec / 0.000 sec
12 01:11:05 SELECT AVG(yield_kg_per_hectare) AS average_crop_yield FROM Smart_Farming_Crop_Yield LIMIT 0, 1000 1 row(s) returned 0.016 sec / 0.000 sec
13 01:12:53 SELECT region, AVG(yield_kg_per_hectare) AS average_yield FROM Smart_Farming_Crop_Yield G... 5 row(s) returned 0.016 sec / 0.000 sec
14 01:16:58 SELECT AVG(temperature_C) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(h... Error Code: 1054. Unknown column 'humidity_humidity_percent' in 'field list' 0.000 sec
15 01:18:44 SELECT AVG(temperature_c) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(... 1 row(s) returned 0.000 sec / 0.000 sec

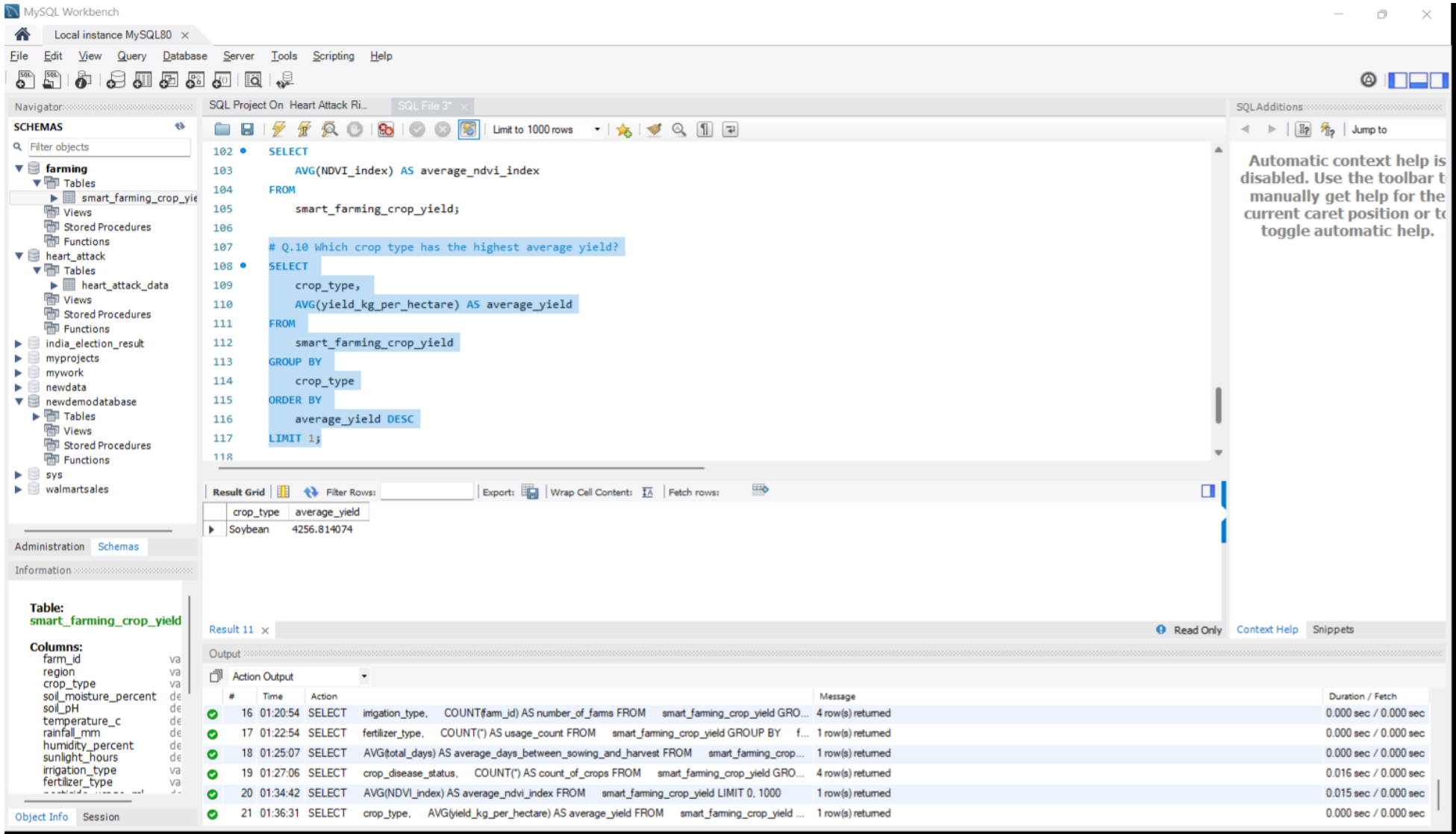

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
59 AVG(temperature_c) AS average_temperature,
60 AVG(rainfall_mm) AS average_rainfall,
61 AVG(humidity_percent) AS average_humidity
62 FROM
63 smart_farming_crop_yield;
64
65 # Q.5 How many farms use each type of irrigation method?
66 SELECT
67 irrigation_type,
68 COUNT(farm_id) AS number_of_farms
69 FROM
70 smart_farming_crop_yield
71 GROUP BY
72 irrigation_type;
73
74
75
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
irrigation_type number_of_farms
None 150
Sprinkler 121
Drip 111
Manual 118
Result 6
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or tc toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
11 01:07:40 SELECT crop_type, COUNT(*) AS crop_count FROM smart_farming_crop_yield GROUP BY crop... 5 row(s) returned 0.000 sec / 0.000 sec
12 01:11:05 SELECT AVG(yield_kg_per_hectare) AS average_crop_yield FROM Smart_Farming_Crop_Yield LIMIT 0, 1000 1 row(s) returned 0.016 sec / 0.000 sec
13 01:12:53 SELECT region, AVG(yield_kg_per_hectare) AS average_yield FROM Smart_Farming_Crop_Yield G... 5 row(s) returned 0.016 sec / 0.000 sec
14 01:16:58 SELECT AVG(temperature_C) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(h... Error Code: 1054. Unknown column 'humidity_humidity_percent' in 'field list' 0.000 sec
15 01:18:44 SELECT AVG(temperature_c) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(... 1 row(s) returned 0.000 sec / 0.000 sec
16 01:20:54 SELECT irrigation_type, COUNT(farm_id) AS number_of_farms FROM smart_farming_crop_yield GRO... 4 row(s) returned 0.000 sec / 0.000 sec


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
71 GROUP BY
72 irrigation_type;
73
74 # Q.6 What is the most commonly used fertilizer type?
75 SELECT
76 fertilizer_type,
77 COUNT(*) AS usage_count
78 FROM
79 smart_farming_crop_yield
80 GROUP BY
81 fertilizer_type
82 ORDER BY
83 usage_count DESC
84 LIMIT 1;
85
86
87
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Fetch rows:
fertilizer_type usage_count
Mixed 167
Result 7
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help
Snippets
Output
Action Output
Time Action Message Duration / Fetch
12 01:11:05 SELECT AVG(yield_kg_per_hectare) AS average_crop_yield FROM Smart_Farming_Crop_Yield LIMIT 0, 1000 1 row(s) returned 0.016 sec / 0.000 sec
13 01:12:53 SELECT region, AVG(yield_kg_per_hectare) AS average_yield FROM Smart_Farming_Crop_Yield G... 5 row(s) returned 0.016 sec / 0.000 sec
14 01:16:58 SELECT AVG(temperature_C) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(h... Error Code: 1054. Unknown column 'humidity_humidity_percent' in 'field list' 0.000 sec
15 01:18:44 SELECT AVG(temperature_c) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(... 1 row(s) returned 0.000 sec / 0.000 sec
16 01:20:54 SELECT irrigation_type, COUNT(farm_id) AS number_of_farms FROM smart_farming_crop_yield GRO... 4 row(s) returned 0.000 sec / 0.000 sec
17 01:22:54 SELECT fertilizer_type, COUNT(*) AS usage_count FROM smart_farming_crop_yield GROUP BY f... 1 row(s) returned 0.000 sec / 0.000 sec


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
77 COUNT(*) AS usage_count
78 FROM
79 smart_farming_crop_yield
80 GROUP BY
81 fertilizer_type
82 ORDER BY
83 usage_count DESC
84 LIMIT 1;
85
86 # Q.7 What is the average number of days between sowing and harvest?
87 SELECT
88 AVG(total_days) AS average_days_between_sowing_and_harvest
89 FROM
90 smart_farming_crop_yield;
91
92
93
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
average_days_between_sowing_and_harvest
119.4960
Result 8
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help
Snippets
Output
Action Output
Time Action Message Duration / Fetch
13 01:12:53 SELECT region, AVG(yield_kg_per_hectare) AS average_yield FROM Smart_Farming_Crop_Yield G... 5 row(s) returned 0.016 sec / 0.000 sec
14 01:16:58 SELECT AVG(temperature_C) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(h... Error Code: 1054. Unknown column 'humidity_humidity_percent' in 'field list' 0.000 sec
15 01:18:44 SELECT AVG(temperature_c) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(... 1 row(s) returned 0.000 sec / 0.000 sec
16 01:20:54 SELECT irrigation_type, COUNT(farm_id) AS number_of_farms FROM smart_farming_crop_yield GRO... 4 row(s) returned 0.000 sec / 0.000 sec
17 01:22:54 SELECT fertilizer_type, COUNT(*) AS usage_count FROM smart_farming_crop_yield GROUP BY f... 1 row(s) returned 0.000 sec / 0.000 sec
18 01:25:07 SELECT AVG(total_days) AS average_days_between_sowing_and_harvest FROM smart_farming_crop... 1 row(s) returned 0.000 sec / 0.000 sec


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
87 SELECT
88 AVG(total_days) AS average_days_between_sowing_and_harvest
89 FROM
90 smart_farming_crop_yield;
91
92 # Q.8 How many crops are affected by disease (None, Mild, Severe)?
93 SELECT
94 crop_disease_status,
95 COUNT(*) AS count_of_crops
96 FROM
97 smart_farming_crop_yield
98 GROUP BY
99 crop_disease_status;
100
101
102
103
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
crop_disease_status count_of_crops
Mild 125
None 130
Severe 133
Moderate 112
Result 9
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or tc toggle automatic help.
Context Help
Snippets
Output
Action Output
Time Action Message Duration / Fetch
14 01:16:58 SELECT AVG(temperature_C) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(h... Error Code: 1054. Unknown column 'humidity_humidity_percent' in 'field list' 0.000 sec
15 01:18:44 SELECT AVG(temperature_c) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(... 1 row(s) returned 0.000 sec / 0.000 sec
16 01:20:54 SELECT irrigation_type, COUNT(farm_id) AS number_of_farms FROM smart_farming_crop_yield GRO... 4 row(s) returned 0.000 sec / 0.000 sec
17 01:22:54 SELECT fertilizer_type, COUNT(*) AS usage_count FROM smart_farming_crop_yield GROUP BY f... 1 row(s) returned 0.000 sec / 0.000 sec
18 01:25:07 SELECT AVG(total_days) AS average_days_between_sowing_and_harvest FROM smart_farming_crop... 1 row(s) returned 0.000 sec / 0.000 sec
19 01:27:06 SELECT crop_disease_status, COUNT(*) AS count_of_crops FROM smart_farming_crop_yield GRO... 4 row(s) returned 0.016 sec / 0.000 sec
Upcoming Earnings
Search
ENG IN
01:27 30-04-2025


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
91
92 # Q.8 How many crops are affected by disease (None, Mild, Severe)?
93 SELECT
94 crop_disease_status,
95 COUNT(*) AS count_of_crops
96 FROM
97 smart_farming_crop_yield
98 GROUP BY
99 crop_disease_status;
100
101 # Q.9 What is the average NDVI index (vegetation health) for all crops?
102 SELECT
103 AVG(NDVI_index) AS average_ndvi_index
104 FROM
105 smart_farming_crop_yield;
106
107
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
average_ndvi_index
0.602060
Result 10
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
Context Help
Snippets
Output
Action Output
Time Action Message Duration / Fetch
15 01:18:44 SELECT AVG(temperature_c) AS average_temperature, AVG(rainfall_mm) AS average_rainfall, AVG(... 1 row(s) returned 0.000 sec / 0.000 sec
16 01:20:54 SELECT irrigation_type, COUNT(farm_id) AS number_of_farms FROM smart_farming_crop_yield GRO... 4 row(s) returned 0.000 sec / 0.000 sec
17 01:22:54 SELECT fertilizer_type, COUNT(*) AS usage_count FROM smart_farming_crop_yield GROUP BY f... 1 row(s) returned 0.000 sec / 0.000 sec
18 01:25:07 SELECT AVG(total_days) AS average_days_between_sowing_and_harvest FROM smart_farming_crop... 1 row(s) returned 0.000 sec / 0.000 sec
19 01:27:06 SELECT crop_disease_status, COUNT(*) AS count_of_crops FROM smart_farming_crop_yield GRO... 4 row(s) returned 0.016 sec / 0.000 sec
20 01:34:42 SELECT AVG(NDVI_index) AS average_ndvi_index FROM smart_farming_crop_yield LIMIT 0, 1000 1 row(s) returned 0.015 sec / 0.000 sec


MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
farming
Tables
smart_farming_crop_yie
Views
Stored Procedures
Functions
heart_attack
Tables
heart_attack_data
Views
Stored Procedures
Functions
india_election_result
myprojects
mywork
newdata
newdemodatabase
Tables
Views
Stored Procedures
Functions
sys
walmartsales
Administration Schemas
Information
Table:
smart_farming_crop_yield
Columns:
farm_id
region
crop_type
soil_moisture_percent
soil_pH
temperature_c
rainfall_mm
humidity_percent
sunlight_hours
irrigation_type
fertilizer_type
Object Info Session
SQL Project On Heart Attack Ri...
SQL File 3*
Limit to 1000 rows
102 SELECT
103 AVG(NDVI_index) AS average_ndvi_index
104 FROM
105 smart_farming_crop_yield;
106
107 # Q.10 Which crop type has the highest average yield?
108 SELECT
109 crop_type,
110 AVG(yield_kg_per_hectare) AS average_yield
111 FROM
112 smart_farming_crop_yield
113 GROUP BY
114 crop_type
115 ORDER BY
116 average_yield DESC
117 LIMIT 1;
118
Result Grid Filter Rows: Export: Wrap Cell Content: Fetch rows:
crop_type average_yield
Soybean 4256.814074
Result 11
Read Only
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or tc toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
16 01:20:54 SELECT irrigation_type, COUNT(farm_id) AS number_of_farms FROM smart_farming_crop_yield GRO... 4 row(s) returned 0.000 sec / 0.000 sec
17 01:22:54 SELECT fertilizer_type, COUNT(*) AS usage_count FROM smart_farming_crop_yield GROUP BY f... 1 row(s) returned 0.000 sec / 0.000 sec
18 01:25:07 SELECT AVG(total_days) AS average_days_between_sowing_and_harvest FROM smart_farming_crop... 1 row(s) returned 0.000 sec / 0.000 sec
19 01:27:06 SELECT crop_disease_status, COUNT(*) AS count_of_crops FROM smart_farming_crop_yield GRO... 4 row(s) returned 0.016 sec / 0.000 sec
20 01:34:42 SELECT AVG(NDVI_index) AS average_ndvi_index FROM smart_farming_crop_yield LIMIT 0, 1000 1 row(s) returned 0.015 sec / 0.000 sec
21 01:36:31 SELECT crop_type, AVG(yield_kg_per_hectare) AS average_yield FROM smart_farming_crop_yield ... 1 row(s) returned 0.000 sec / 0.000 sec


Thank you