

## -- 6. View Available Products (Stock > 0)

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** agrobulz
- Tables:** admin, crop, customer, farmer, farmer\_customer, farmer\_customer\_f..., farmer\_customer\_l..., farmer\_inventory, product, vendor, vendor\_farmer\_d..., vendor\_farmer\_fee..., vendor\_farmer\_ord..., vendor\_farmer\_tr..., vendor\_inventory, vendor\_product.
- Query 1:**

```

1. SELECT p.product_id, p.name, v.vendor_id, v.name AS vendor_name, vi.stock_level
2. FROM product p
3. JOIN vendor_inventory vi ON p.product_id = vi.product_id
4. JOIN vendor v ON vi.vendor_id = v.vendor_id
5. WHERE vi.stock_level > 0;
6.
    
```
- Result Grid:** Shows a table with columns: product\_name, vendor\_id, vendor\_name, stock\_level. The data is:

product_name	vendor_id	vendor_name	stock_level
P001	V001	AgroProvider	100
P002	V002	FarmEquip	50
P003	V003	CropStore	30
P004	V004	AgrTools	20
P005	V005	GreenFields	60
- Context Help:** A tooltip on the right says: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."
- Action Output:** Shows the history of actions taken during the session, including queries and their execution times.

## -- 5. View Products by Price Range

The screenshot shows the MySQL Workbench interface with a query editor and a results grid. The query is:

```
1 • SELECT *
  2 FROM product
  3 WHERE price BETWEEN 10 AND 100;
```

The results grid displays the following data:

product_id	name	type	description	price	quantity	classification
P001	Fertilizer A	Fertilizer	High quality nitrogen fertilizer	50.00	100	Chemical
P002	Insecticide B	Pesticide	Eco-friendly pesticide	30.00	100	Chemical
P003	Organic Manure	Fertilizer	Organic manure for soil enrichment	10.00	150	Organic

The MySQL Workbench interface includes various toolbars, a sidebar with schema navigation, and a status bar indicating the date and time.

## -- 7. View Products by Vendor Ratings

The screenshot shows the MySQL Workbench interface with the following details:

- Query Editor:** Contains the following SQL code:

```

1 • SELECT p.product_id, p.name, v.vendor_id, v.name AS vendor_name,
2          AVG(vf.rating) AS average_rating
3
4 FROM product p
5 JOIN vendor_product vp ON p.product_id = vp.product_id
6 JOIN vendor v ON vp.vendor_id = v.vendor_id
7 JOIN vendor_farmer_feedback vf ON v.vendor_id = vf.vendor_id
8 GROUP BY p.product_id, p.name, v.vendor_id, v.name
9 HAVING AVG(vf.rating) >= 4
10 ORDER BY average_rating DESC;
    
```
- Result Grid:** Displays the results of the query in a tabular format:

product_id	name	vendor_id	vendor_name	average_rating
P001	Fertilizer A	V001	Agrivendor	5.0000
P002	Pesticide B	V002	FarmTools	4.0000
P004	Irrigation Pump	V004	Agritools	4.0000
- Object Info:** Shows the schema and table structure for the 'admin' table.
- Action Output:** Displays the execution log with 47 rows, showing the time, action, response, and duration/fetch time for each query step.
- Right Panel:** Includes a context help message: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help."

-- 15.Query to find a farmer who is in dispute with both customer and vendor.

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL code:

```
-- Query to find farmer who is in dispute with customer and vendor, with details
SELECT
    f.farmer_id,
    fc.details AS customer_dispute_detail,
    vf.details AS vendor_dispute_detail
FROM farmer f
LEFT JOIN (
    SELECT o.farmer_id, d.details
    FROM farmer_customer_order o
    JOIN farmer_customer_dispute d
    ON o.order_id = d.order_id
) AS fc ON f.farmer_id = fc.farmer_id
LEFT JOIN (
    SELECT o.farmer_id, d.details
    FROM vendor_farmer_order o
    JOIN vendor_farmer_dispute d
    ON o.order_id = d.order_id
) AS vf ON f.farmer_id = vf.farmer_id;
```

The results grid displays five rows of data:

farmer_id	customer dispute detail	vendor dispute detail
F001	Order delivered later than promised	Payment delayed from vendor side
F002	Crop damaged during transport	Wrong product delivered
F003	Received less crop than ordered	Goods were damaged on delivery
F004	Crop quality below standard	Product quality below expectation
F005	Invoice amount mismatch	Order details did not match invoice

The output pane shows two log entries:

#	Time	Action	Message	Duration / Fetch
215	18:31:27	SELECT * FROM demo.farmer_customer_order LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
216	18:31:34	SELECT * FROM demo.farmer_inventory LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

-- 9. Find the total number of products offered by each vendor

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** agrobuz
- Tables:** admin, crop, customer, farmer, farmer\_crop, farmer\_customer, farmer\_customer\_t, farmer\_inventory, product, vendor, vendor\_farmer\_dls, vendor\_farmer\_fee, vendor\_farmer\_ord, vendor\_farmer\_tr, vendor\_inventory, vendor\_product.
- Query 1:** A SQL query to calculate the total number of products offered by each vendor.
- Result Grid:** Shows the results of the query, which are:

vendor_id	name	total_products
V001	AgroVendor	1
V002	FarmEquip	1
V003	CopStore	1
V004	AgroTools	1
V005	GreenFields	1

- Action Output:** Displays the execution log for the query, showing the following actions:

Time	Action	Response	Duration / Fetch Time
17:57:01	INSERT INTO vendor_inventory(vendor_id, product_id, stock_level, low_stock_notification) VALUES ('V0001', 'P001', 100, FALSE), ('V002', 'P002', 50, ...)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0016 sec
17:57:37	INSERT INTO farmer_customer_order(order_id, farmer_id, customer_id, crop_id, order_type, order_status, quantity, order_date) VALUES ('FC0001', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0)	0.0039 sec	
17:57:37	INSERT INTO vendor_farmer_order(order_id, vendor_id, farmer_id, product_id, order_type, order_status, quantity, order_date) VALUES ('VFO001', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0)	0.0039 sec	
17:58:11	INSERT INTO farmer_customer_dispute(dispute_id, order_id, dispute_type, dispute_status, details, resolution_date) VALUES ('FCD001', 'FO001', 'L...', 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0)	0.0023 sec	
17:58:14	INSERT INTO farmer_farmer_dispute(dispute_id, order_id, dispute_type, dispute_status, details, resolution_date) VALUES ('VFD001', 'VF001', 'L...', 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0)	0.0014 sec	
17:58:43	INSERT INTO farmer_feedback(feedback_id, order_id, farmer_id, vendor_id, rating, comments, feedback_timestamp) VALUES ('FFC001', 'FO001', 1, 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0)	0.0006 sec	
17:58:43	INSERT INTO vendor_feedback(feedback_id, order_id, farmer_id, vendor_id, rating, comments, feedback_timestamp) VALUES ('VFF001', 'VF001', 1, 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0)	0.0079 sec	
17:59:04	INSERT INTO farmer_customer_transaction(transaction_id, order_id, payment_mode, amount, transaction_timestamp, commission) VALUES ('FCTD01', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0)	0.0049 sec	
17:59:04	INSERT INTO vendor_farmer_transaction(transaction_id, order_id, payment_mode, amount, transaction_timestamp, commission) VALUES ('VFTD01', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0)	0.0052 sec	
17:59:59	SELECT f.name AS farmer_name, c.type AS crop_type, c.quantity FROM FARMER f JOIN FARMER_CROP fc ON farmer_id = f.farmer_id JOIN CROP c ON crop_id = fc.crop_id	25 row(s) returned	
18:04:49	SELECT v.vendor_id, v.name, COUNT(vp.product_id) AS total_products FROM vendor v LEFT JOIN vendor_product vp ON v.vendor_id = vp.vendor_id	5 row(s) returned	

## -- 10. Query to Track Orders Placed by Farmers

The screenshot shows the MySQL Workbench interface with a query editor and results grid.

**Query Editor:**

```

1 SELECT v.vendor_id, v.name AS vendor_name,
2     vfo.order_id, vfo.farmer_id, f.name AS farmer_name,
3     vfo.product_id, p.name AS product_name,
4     vfo.quantity, vfo.order_status, vfo.order_date
5 FROM vendor_farmer_order vfo
6 JOIN vendor v ON vfo.vendor_id = v.vendor_id
7 JOIN farmer f ON vfo.farmer_id = f.farmer_id
8 JOIN product p ON vfo.product_id = p.product_id
9 ORDER BY vfo.order_date DESC;
10

```

**Result Grid:**

vendor_id	vendor_name	order_id	farmer_id	farmer_name	product_id	product_name	quantity	order_status	order_date
V001	AgrVendor	OFV001	F001	Sam Farmer	P001	Fertilizer A	50	Pending	2025-03-22 17:57:37
V002	FarmGroup	OFV002	F002	Nancy Farmer	P002	Fertilizer B	50	Completed	2025-03-22 17:57:37
V003	GreenStore	OFV003	F003	George Plow	P003	Tractor X	30	Pending	2025-03-22 17:57:37
V004	AgriTools	OFV004	F004	Hannah Harvest	P004	Irrigation Pump	10	Completed	2025-03-22 17:57:37
V005	GreenFields	OFV005	F005	Oliver Orchard	P005	Organic Manure	40	Pending	2025-03-22 17:57:37

**Action Output:**

Action	Time	Duration / Fetch Time
SELECT c.crop_id, c.type, c.quantity, c.price, fc.harvest_date, fc.delivery_location, f.farmer_id, fname AS farmer_name FROM crop c JOIN...	18:26:38	Error Code: 1054. Unknown column 'fc.harvest_date' in...
WHERE c.type = 'Whole'	18:26:52	0.031 sec
50 18:27:15	18:27:15	Error Code: 1064. You have an error in your SQL syntax...
SELECT c.crop_id, c.type, c.quantity, c.price, fc.harvest_date, fc.delivery_location, f.farmer_id, fname AS farmer_name FROM crop c JOIN...	18:27:30	0.0015 sec
51 18:29:42	18:29:42	Error Code: 1054. Unknown column 'fc.harvest_date' in...
SELECT c.crop_id, c.type, c.quantity, c.price, fc.harvest_date, fc.delivery_location, f.farmer_id, fname AS farmer_name FROM crop c JOIN...	18:29:46	0.0049 sec
52 18:31:46	18:31:46	Error Code: 1054. Unknown column 'fc.harvest_date' in...
SELECT c.crop_id, c.type, c.quantity, c.price, f.farmer_id, fname AS farmer_name FROM crop c JOIN farmer_crop fc ON c.crop_id = fc.crop_id J...	18:32:28	0.0024 sec
53 18:35:01	18:35:01	Error Code: 1054. Unknown column 'fc.harvest_date' in...
SELECT v.vendor_id, v.name, COUNT(vp.product_id) AS total_products FROM vendor v LEFT JOIN vendor_product vp ON v.vendor_id = vp.vendor_id...	18:40:23	0.00074 sec
54 18:41:43	18:41:43	5 row(s) returned
SELECT v.vendor_id, v.name AS vendor_name, vfo.order_id, vfo.farmer_id, f.name AS farmer_name, vfo.product_id, p.name AS product_na...	18:41:43	0.0032 sec / 0.000057...
55 18:41:43	18:41:43	5 row(s) returned
56 18:41:43	18:41:43	0.0042 sec / 0.00073...
57 18:41:43	18:41:43	0.042 sec / 0.00051 sec
58 18:41:43	18:41:43	5 row(s) returned

-- 12.Give the name and ID of vendor with Excellent and good in their comments

The screenshot shows a SQL query editor interface with the following details:

- Navigator:** On the left, it displays the database schema. Under the 'demo' schema, there are tables like admin, crop, customer, farmer, farmer\_crop, farmer\_customer\_dispute, farmer\_customer\_feedback, farmer\_customer\_order, farmer\_customer\_transaction, farmer\_inventory, product, vendor, vendor\_farmer\_dispute, vendor\_farmer\_feedback, vendor\_farmer\_order, vendor\_farmer\_transaction, vendor\_inventory, and vendor\_product.
- SQL Editor:** The main area contains the following SQL code:

```
1 -- Give the name and ID of vendor with Excellent and good in their comments
2
3 • SELECT v.vendor_id ,
4      v.name
5 FROM demo.vendor_farmer_feedback AS vff
6 JOIN demo.vendor AS v
7     ON vff.vendor_id = v.vendor_id
8 WHERE vff.comments REGEXP 'Excellent|Good';
```
- Result Grid:** Below the code, the results are displayed in a grid format. The columns are 'vendor\_id' and 'name'. The data shows two rows:

vendor_id	name
V001	AgroVendor
V002	FarmEquip
- Toolbar:** At the top, there are various icons for file operations, search, and help.
- Right Panel:** A vertical sidebar on the right contains buttons for 'Result Grid', 'Form Editor', 'Field Types', and 'Query Stats'.

## -- 11.Query to track Disputes

The screenshot shows the MySQL Workbench interface with a query editor window. The query is:

```
1 SELECT v.vendor_id, v.name AS vendor_name,
2        vfd.dispute_id, vfd.order_id,
3        vfd.dispute_type, vfd.dispute_status, vfd.details, vfd.resolution_date
4   FROM vendor_farmer_dispute vfd
5  JOIN vendor v ON vfd.order_id IN (SELECT order_id FROM vendor_farmer_order WHERE vendor_id = v.vendor_id)
6 ORDER BY vfd.resolution_date DESC;
7
```

The results grid displays the following data:

vendor_id	vendor_name	dispute_id	order_id	dispute_type	dispute_status	details	resolution_da...
V005	GreatFarms	VFD005	OFV005	Order Mismatch	Resolved	Order details did not match invoice	2025-03-01
V003	CropStore	VFD003	OFV003	Damaged Goods	Resolved	Goods were damaged on delivery	2025-02-05
V002	FarmEquip	VFD002	OFV002	Incorrect Product	Resolved	Wrong product delivered	2025-01-10
V001	AgroVendor	VFD001	OFV001	Late Payment	Open	Payment delayed from vendor side	N/A
V004	Agritools	VFD004	OFV004	Quality issue	Open	Product quality below expectation	N/A

The Action Output section shows the history of database operations:

Time	Action	Response	Duration / Fetch Time
56 18:35:01	SELECT v.vendor_id, v.name, COUNT(vp.product_id) AS total_products FROM vendor v LEFT JOIN vendor_product vp ON v.vendor_id = vp.vendor_id	5 row(s) returned	0.042 sec / 0.00073...
57 18:40:23	SELECT p.product_id, p.name AS product_name, p.type, p.price, p.quantity, p.description, p.classification, v.vendor_id, v.name AS vendor_name	0 row(s) returned	0.042 sec / 0.00051 s...
58 18:41:43	SELECT v.vendor_id, v.name AS vendor_name, vfd.order_id, vfd.farmer_id, fname AS farmer_name, vfd.product_id, p.name AS product_name	5 row(s) returned	0.019 sec / 0.00024...
59 18:42:37	SELECT v.vendor_id, v.name AS vendor_name, vfd.feedback_id, vfd.order_id, vfd.farmer_id, fname AS farmer_name, vfd.rating, vfd.com...	5 row(s) returned	0.038 sec / 0.00001...
60 18:43:51	SELECT v.vendor_id, v.name AS vendor_name, vft.transaction_id, vft.order_id, vft.amount, vft.payment_mode, vft.transaction_timestamp...	5 row(s) returned	0.0066 sec / 0.00001...
61 18:44:59	UPDATE product SET rent_sale = 'rent' WHERE product_id IN (P003, P004)	Error Code: 1054. Unknown column 'rent_sale' in field...	0.0060 sec
62 18:45:10	ALTER TABLE product ADD COLUMN rent_sale VARCHAR(10) NOT NULL	0 row(s) affected. 0 Duplicates. 0 Warnings.	0.084 sec
63 18:45:14	UPDATE product SET rent_sale = 'sales' WHERE product_id IN (P001, P002, P005)	3 row(s) affected. Rows matched: 3 Changed: 3 W...	0.019 sec
64 18:45:18	UPDATE product SET rent_sale = 'rent' WHERE product_id IN (P003, P004)	2 row(s) affected. Rows matched: 2 Changed: 2 W...	0.011 sec
65 18:46:32	SELECT v.vendor_id, v.name AS vendor_name, cs.support_ticket_id, cs.issue_description, cs.status AS ticket_status, cs.created_at AS tick...	Error Code: 1466. Table 'agrobuz.customer_support'...	0.056 sec
66 18:46:40	SELECT v.vendor_id, v.name AS vendor_name, vfd.dispute_id, vfd.order_id, vfd.dispute_type, vfd.dispute_status, vfd.details, vfd.resolution...	5 row(s) returned	0.012 sec / 0.00055 s...

## -- 8. list crops for sale with specifications (type, quantity, price)

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** agrobuz
- Tables:** admin, crop, customer, farmer, farmer\_crop, farmer\_customer, farmer\_customer\_t..., farmer\_inventory, product, vendor, vendor\_farmer\_d..., vendor\_farmer\_fee..., vendor\_farmer\_ord..., vendor\_farmer\_tr..., vendor\_inventory, vendor\_product.
- Query Editor:** Contains the following SQL code:

```
1 •  SELECT crop_id, type, quantity, price
2   FROM crop
3  WHERE quantity > 0
4  ORDER BY type, price ASC;
5
```
- Result Grid:** Displays the results of the query:

crop_id	type	quantity	price
CR004	Barley	900	2.00
CR002	Com	800	1.75
CR003	Rice	1200	3.00
CR005	Wheat	900	2.50
CR001	Wheat	1000	2.50
- Action Output:** Shows the execution log with 55 entries, mostly successful (green checkmarks) and one error (red exclamation mark). The log includes timestamp, action, response, and duration.
- Session:** Shows the current session details.

## --1. Retrieve all farmers along with crops they grow

The screenshot shows the MySQL Workbench interface with a query editor and results grid.

```

1 -- 1. Retrieve all farmers along with the crops they grow
2 SELECT f.name AS farmer_name, c.type AS crop_type, c.quantity
3 FROM FARMER f
4 JOIN FARMER_CROP fc ON f.farmer_id = fc.farmer_id
5 JOIN CROP c ON fc.crop_id = c.crop_id
    
```

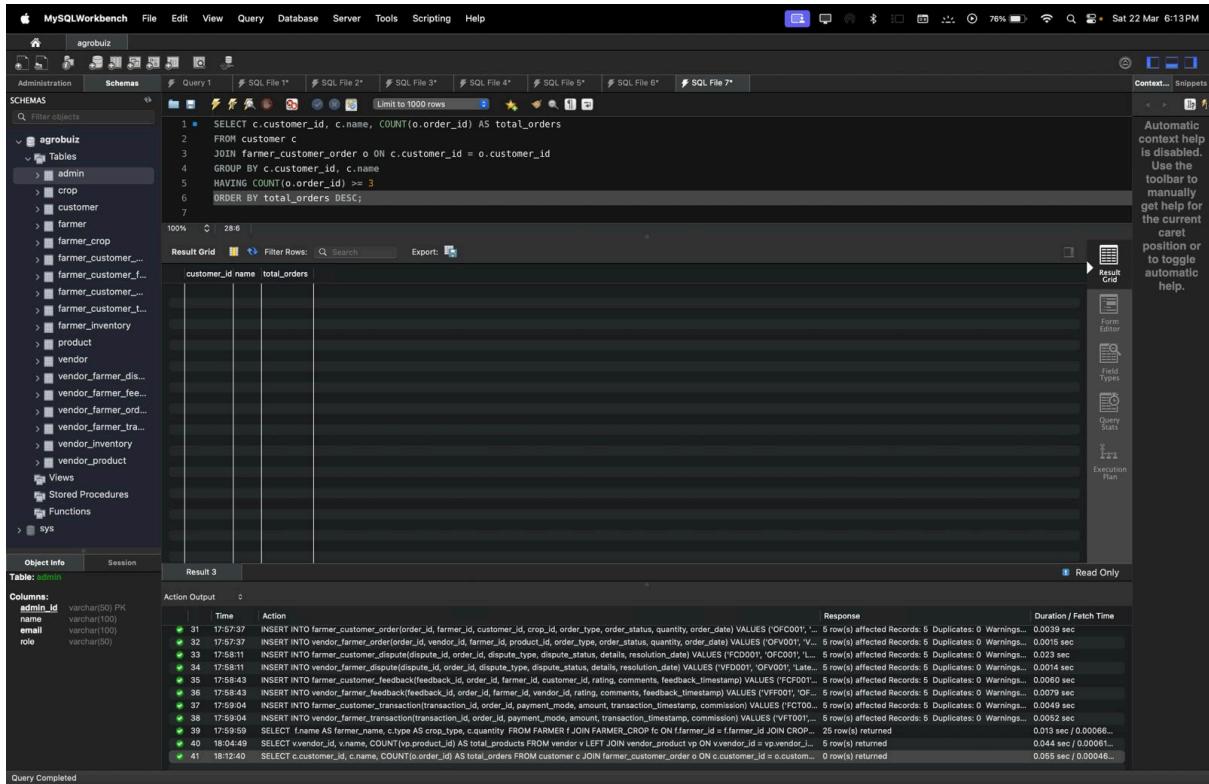
**Result Grid:**

farmer_name	crop_type	quantity
Oliver Orchard	Wheat	1000
Hannah Harvest	Wheat	1000
George Plow	Wheat	1000
Nina Field	Wheat	1000
Sam Farmer	Wheat	1000
Oliver Orchard	Rice	800
Hannah Harvest	Rice	800
George Plow	Rice	800
Nina Field	Rice	800
Sam Farmer	Rice	800
Oliver Orchard	Bailey	900
Hannah Harvest	Bailey	900
George Plow	Bailey	900
Nina Field	Bailey	900
Sam Farmer	Bailey	900
Oliver Orchard	Soybean	700
Hannah Harvest	Soybean	700
George Plow	Soybean	700
Nina Field	Soybean	700
Sam Farmer	Soybean	700

**Action Output:**

Time	Action	Response	Duration / Fetch Time
29 17:57:01	INSERT INTO farmer_inventory(farmer_id, crop_id, stock_level, low_stock_notification) VALUES ('F001', 'CRO01', 500, FALSE), ('F002', 'CRO03', 300, ...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0032 sec
30 17:57:01	INSERT INTO vendor_inventory(vendor_id, product_id, stock_level, low_stock_notification) VALUES ('V001', 'POD01', 1000, FALSE), ('V002', 'POD02', 1000, ...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0016 sec
31 17:57:07	INSERT INTO farmer_order(farmer_id, order_id, crop_id, quantity, order_type, order_status, quantity, order_date) VALUES ('FCFO001', 'FO001', 'CRO01', 100, 'L', 'P', 100, '2023-03-15 12:00:00')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0032 sec
32 17:57:37	INSERT INTO vendor_order(vendor_id, order_id, farmer_id, order_id, crop_id, quantity, order_type, order_status, quantity, order_date) VALUES ('FCFO001', 'FO001', 'V001', 'FO001', 'CRO01', 100, 'L', 'P', 100, '2023-03-15 12:00:00')	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0038 sec
33 17:58:11	INSERT INTO farmer_customer_dispute(dispute_id, order_id, dispute_type, dispute_status, details, resolution_date) VALUES ('FCFO001', 'FO001', 'L', 5, 'row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.023 sec	
34 17:58:11	INSERT INTO vendor_farmer_dispute(dispute_id, order_id, dispute_type, dispute_status, details, resolution_date) VALUES ('FCFO001', 'FO001', 'L', 5, 'row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0014 sec	
35 17:58:43	INSERT INTO farmer_customer_feedback(feedback_id, order_id, farmer_id, customer_id, rating, comment, feedback_timestamp) VALUES ('FCFO001', 'FO001', 5, 5, 'row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0060 sec	
36 17:58:43	INSERT INTO vendor_farmer_feedback(feedback_id, order_id, farmer_id, vendor_id, rating, comment, feedback_timestamp) VALUES ('FCFO001', 'FO001', 5, 5, 'row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0079 sec	
37 17:59:04	INSERT INTO vendor_farmer_transaction(transaction_id, order_id, payment_mode, amount, transaction_timestamp, commission) VALUES ('VFT001', 'FO001', 'OF...', 5, 'row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0049 sec	
38 17:59:04	INSERT INTO vendor_farmer_transaction(transaction_id, order_id, payment_mode, amount, transaction_timestamp, commission) VALUES ('VFT001', 'FO001', 'OF...', 5, 'row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.0052 sec	
39 17:59:59	SELECT f.name AS farmer_name, c.type AS crop_type, c.quantity FROM FARMER f JOIN FARMER_CROP fc ON f.farmer_id = fc.farmer_id JOIN CROP ...	25 row(s) returned	0.019 sec / 0.00066...

### --3. query to Get customers who have placed at least 3 orders



The screenshot shows the MySQL Workbench interface with the following details:

- Query Editor:** Contains the SQL query:

```
1 SELECT c.customer_id, c.name, COUNT(o.order_id) AS total_orders
2 FROM customer c
3 JOIN farmer_customer_order o ON c.customer_id = o.customer_id
4 GROUP BY c.customer_id, c.name
5 HAVING COUNT(o.order_id) >= 3
6 ORDER BY total_orders DESC;
```
- Result Grid:** Displays the results of the query, showing columns: customer\_id, name, and total\_orders. No data is present in the grid.
- Session Tab:** Shows the session details for the current user.
- Action Output:** Shows the history of actions taken during the session, including insertions into various tables like farmer\_customer\_order, vendor\_product, and transaction.
- Log:** Shows the log of events with columns: Time, Action, Response, and Duration / Fetch Time.

Time	Action	Response	Duration / Fetch Time
31 17:57:37	INSERT INTO farmer_customer_order(order_id, farmer_id, customer_id, crop_id, order_type, order_status, quantity, order_date) VALUES ('FOC001', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0.0039 sec		
32 17:57:37	INSERT INTO vendor_farmer_order(order_id, vendor_id, farmer_id, product_id, order_type, order_status, quantity, order_date) VALUES ('VFO001', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0.0015 sec		
33 17:58:11	INSERT INTO farmer_customer_dispute(dispute_id, order_id, farmer_id, customer_id, dispute_type, details, resolution_date) VALUES ('FOCD001', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0.0015 sec		
34 17:58:11	INSERT INTO vendor_farmer_dispute(dispute_id, order_id, vendor_id, farmer_id, dispute_type, details, resolution_date) VALUES ('VFCD001', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0.0015 sec		
35 17:58:43	INSERT INTO vendor_farmer_feedback(feedback_id, order_id, farmer_id, vendor_id, rating, comments, feedback_timestamp) VALUES ('VFF001', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0.0014 sec		
36 17:58:43	INSERT INTO vendor_farmer_feedback(feedback_id, order_id, farmer_id, vendor_id, rating, comments, feedback_timestamp) VALUES ('VFF002', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0.0014 sec		
37 17:59:04	INSERT INTO farmer_customer_transaction(transaction_id, order_id, payment_mode, amount, transaction_timestamp, commission) VALUES ('FCT001', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0.0009 sec		
38 17:59:04	INSERT INTO vendor_farmer_transaction(transaction_id, order_id, payment_mode, amount, transaction_timestamp, commission) VALUES ('VFT001', ..., 5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0.0052 sec		
39 17:59:59	SELECT t.name AS farmer_name, c.type AS crop_type, c.quantity FROM FARMER f JOIN FARMER_CROP fc ON farmer_id = f.farmer_id JOIN CROP c ON crop_id = fc.crop_id WHERE f.farmer_id = 1 AND c.crop_id = 1	25 row(s) returned	0.015 sec / 0.00066...
40 18:04:49	SELECT v.vendor_id, v.name, COUNT(vp.product_id) AS total_products FROM vendor v LEFT JOIN vendor_product vp ON v.vendor_id = vp.vendor_id WHERE v.vendor_id = 1	6 row(s) returned	0.044 sec / 0.00061...
41 18:12:40	SELECT c.customer_id, c.name, COUNT(o.order_id) AS total_orders FROM customer c JOIN farmer_customer_order o ON c.customer_id = o.customer_id WHERE c.customer_id = 1	0 row(s) returned	0.055 sec / 0.00046...

## -- 4. View Products by Type

The screenshot shows the MySQL Workbench interface with the following details:

- Schema:** agrobulz
- Query:** SELECT \* FROM product WHERE type = 'fertilizer';
- Result Grid:** Displays two rows of data:

product_id	name	type	description	price	quantity	classification
P001	Fertilizer A	Fertilizer	High quality nitrogen fertilizer	50.00	100	Chemical
P005	Organic Manure	Fertilizer	Organic manure for soil enrichment	20.00	150	Organic
- Execution Plan:** Shows the query execution steps, including table scans and joins.

-- 16. Generate admin analytics report for most sold items

The screenshot shows the MySQLWorkbench interface. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, Help, and a status bar indicating 'Sat 22 Mar 7:44PM' and battery level at 80%. The left sidebar displays the database schema for 'agrobuliz', showing tables like admin, crop, customer, farmer, farmer\_crop, farmer\_customer..., and vendor. The main area shows a query editor with the following SQL code:

```

1 SELECT
2     c.type AS crop_name,
3     COUNT(fco.order_id) AS total_orders
4 FROM crop c
5 JOIN farmer_customer_order fco
6     ON c.crop_id = fco.crop_id
7 GROUP BY c.crop_id, c.type
8 ORDER BY total_orders DESC
9 LIMIT 5;

```

The result grid shows the output:

crop_name	total_orders
Wheat	1
Corn	1
Rice	1
Barley	1
Soybean	1

Below the query editor, the 'Object Info' tab is selected, showing the 'Tables' section with 'admin' highlighted. The 'Table: admin' section shows columns: admin\_id (varchar(50) PK), name (varchar(100)), email (varchar(100)), and role (varchar(50)). The 'Action Output' section lists recent actions, and the 'Results' section shows the execution history.

-- 13.Find the orders placed in year 2025

The screenshot shows the MySQL Workbench interface. In the top navigation bar, the title is "MySQLWorkbench" and the date is "Sat 22 Mar 7:45PM". The main area displays a SQL query in the "Query 1" tab:

```
1 SELECT * FROM farmer_customer_order
2 WHERE order_date BETWEEN '2025-01-01 00:00:00' AND '2025-12-01 23:59:59';
```

The "Result Grid" shows the results of the query:

order_id	farmer_id	customer_id	crop_id	order_type	order_status	quantity	order_date
F0001	F001	C001	CR001	Direct	Pending	100	2025-03-22 17:57:37
DFC002	F002	C002	CR003	Direct	Completed	200	2025-03-22 17:57:37
DFC003	F003	C003	CR004	Direct	Pending	150	2025-03-22 17:57:37
DFC004	F004	C004	CR002	Direct	Completed	120	2025-03-22 17:57:37
DFC005	F005	C005	CR005	Direct	Pending	80	2025-03-22 17:57:37

The "Execution Plan" panel on the right shows the following steps:

Time	Action	Response	Duration / Fetch Time
64	18:45:18 UPDATE product SET rent_sales = 'rent' WHERE product_id IN ('P003', 'P004')	2 row(s) affected Rows matched: 2 Changed: 2 Warn: 0	0.001 sec
65	18:46:32 SELECT v.vendor_id, v.name AS vendor_name, cs.support_ticket_id, cs.issue_description, cs.status AS ticket_status, cs.created_at AS tick...	Error Code: 1146. Table 'agrobuz.customer_support' doesn't exist.	0.0056 sec
66	18:46:40 SELECT v.vendor_id, v.name AS vendor_name, vfd.dispute_id, vfd.order_id, vfd.dispute_type, vfd.dispute_status, vfd.details, vfd.resolution...	5 row(s) returned	0.015 sec / 0.00055 s...
67	18:50:00 SELECT farmer_id, fname, fc_dispute.dispute_id AS customer_dispute_id, fc_dispute.dispute_type AS customer_dispute_type, fc...	0 row(s) returned	0.035 sec / 0.00048...
68	18:50:21 SELECT f.farmer_id, f.fname, fc_dispute.dispute_id AS customer_dispute_id, fc_dispute.dispute_type AS customer_dispute_type, fc...	0 row(s) returned	0.0027 sec / 0.00002...
69	19:09:34 SELECT v.vendor_id, v.name FROM demo.vendor_feedback AS vff JOIN demo.vendor AS v ON vff.vendor_id = v.vendor_id WHERE vff...	Error Code: 1049. Unknown database 'demo'	0.051 sec
70	19:10:33 SELECT v.vendor_id, v.name FROM demo.vendor_feedback AS vff JOIN demo.vendor AS v ON vff.vendor_id = v.vendor_id WHERE vff...	Error Code: 1049. Unknown database 'demo'	0.0094 sec
71	19:11:06 SELECT v.vendor_id, v.name FROM vendor_farmer_feedback AS vff JOIN vendor AS v ON vff.vendor_id = v.vendor_id WHERE vff.comments RE...	2 row(s) returned	0.035 sec / 0.00055...
72	19:43:57 SELECT c.type AS crop_name, COUNT(fco.order_id) AS total_orders FROM crop c JOIN farmer_customer_order fco ON c.crop_id = fco.crop_id...	5 row(s) returned	0.049 sec / 0.00029...
73	19:44:53 FROM farmer_customer_order WHERE order_date BETWEEN '2025-01-01 00:00:00' AND '2025-12-01 23:59:59' LIMIT 0, 1000	Error Code: 1064. You have an error in your SQL syntax...	0.0068 sec
74	19:45:51 SELECT * FROM farmer_customer_order WHERE order_date BETWEEN '2025-01-01 00:00:00' AND '2025-12-01 23:59:59' LIMIT 0, 1000	5 row(s) returned	0.059 sec / 0.00048...

## -- 14.Query to find sales of each crop

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** agrobulz
- Tables:** admin, crop, customer, farmer, farmer\_crop, farmer\_customer, farmer\_customer\_f..., farmer\_customer\_l..., farmer\_inventory, product, vendor, vendor\_farmer\_d..., vendor\_farmer\_f..., vendor\_farmer\_ord..., vendor\_farmer\_tr..., vendor\_inventory, vendor\_product.
- Query Editor:**

```

1 SELECT
2     c.crop_id,
3     c.type,
4     SUM(o.quantity) AS total_quantity_sold,
5     SUM(o.quantity * c.price) AS total_sales_amount
6     FROM farmer_customer_order o
7     JOIN crop c ON o.crop_id = c.crop_id
8     GROUP BY c.crop_id, c.type;
  
```
- Result Grid:**

crop_id	type	total_quantity_sold	total_sales_amount
CR001	Wheat	100	250.00
CR003	Rice	200	600.00
CR004	Soy	150	300.00
CR002	Corn	120	210.00
CR005	Soybean	80	180.00
- Object Info:** Table: admin
- Session:** Read Only
- Action Output:** Shows a history of 75 actions with their time, action, response, and duration/fetch time.

## --2. Query to get a list of all feedback entries (from vendors about farmers)

The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** agrobiz
- Tables:** admin
- Query Editor:**

```

1 SELECT v.vendor_id, v.name AS vendor_name,
2       vff.feedback_id, vff.order_id,
3       vff.farmer_id, f.name AS farmer_name,
4       vff.rating, vff.comments, vff.feedback_timestamp
5   FROM vendor_farmer_feedback vff
6  JOIN vendor v ON vff.vendor_id = v.vendor_id
7  JOIN farmer f ON vff.farmer_id = f.farmer_id
8 ORDER BY vff.feedback_timestamp DESC;
    
```
- Result Grid:**

vendor_id	vendor_name	feedback_id	order_id	farmer_id	farmer_name	rating	comments	feedback_timestamp
V001	AgroVendor	VFF001	OFV001	F001	Sam Farmer	5	Excellent service from vendor	2025-03-22 17:58:43
V002	FarmEquip	VFF002	OFV002	F002	Nina Field	4	Timely delivery and good product quality	2025-03-22 17:58:43
V003	CropMaster	VFF003	OFV003	F003	George Row	3	Average experience	2025-03-22 17:58:43
V004	AgrTools	VFF004	OFV004	F004	Johnathan Harvest	4	Good service and vendor	2025-03-22 17:58:43
V005	GreenFields	VFF005	OFV005	F005	Oliver Orchard	2	Product quality could be improved	2025-03-22 17:58:43
- Object Info:** Table: admin
- Session:** Read Only
- Action Output:** Shows the history of actions taken during the session.