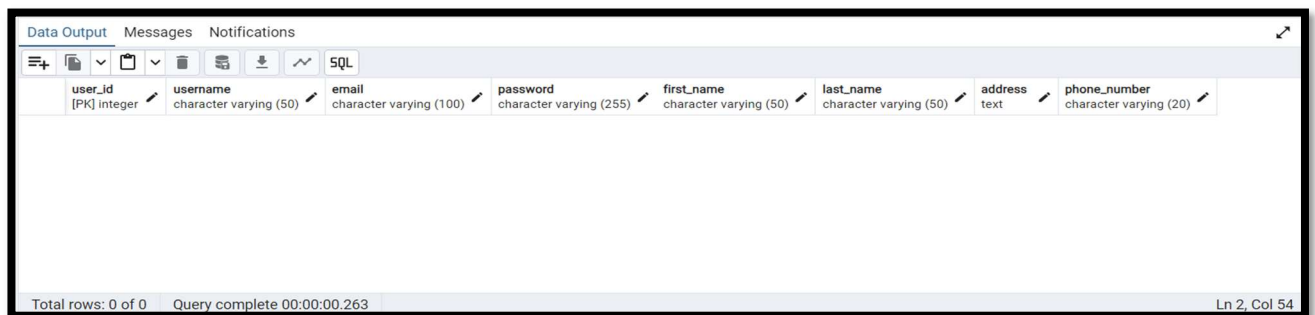# DBMS Assignment: 1

## 202412012

## Jayesh S Chauhan

## 1. Select all users with the first name "Rahul".

**Query:**

SELECT * FROM "EC_DB".users WHERE first_name='Rahul';

**Output:**

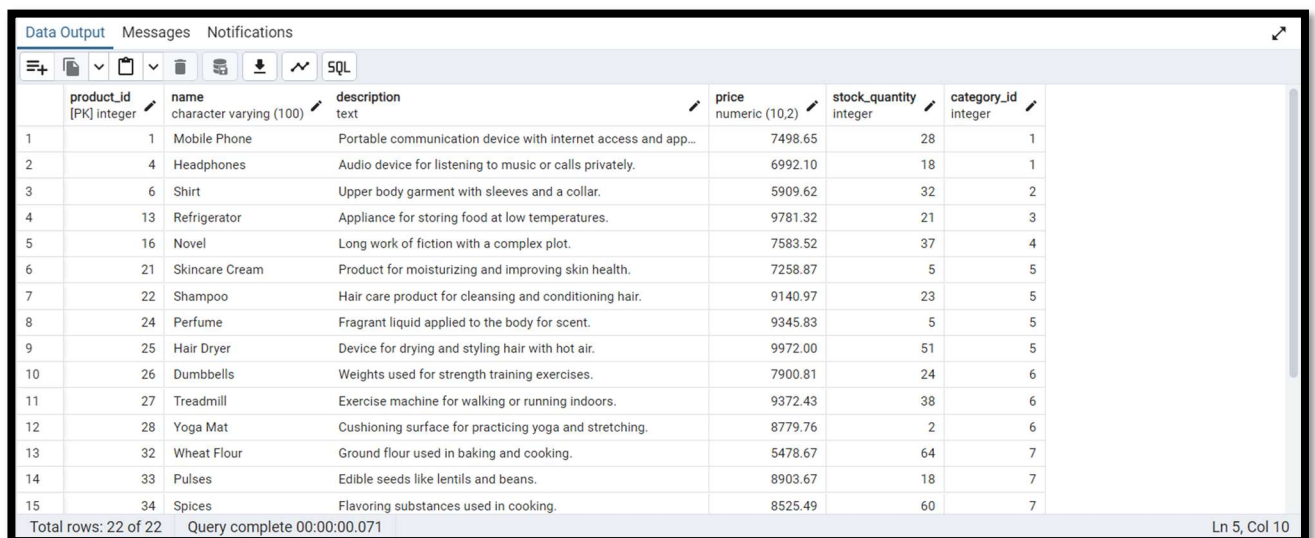| user_id<br>[PK] integer | username<br>character varying (50) | email<br>character varying (100) | password<br>character varying (255) | first_name<br>character varying (50) | last_name<br>character varying (50) | address<br>text | phone_number<br>character varying (20) |
|---|---|---|---|---|---|---|---|

Total rows: 0 of 0    Query complete 00:00:00.263

## 2. Select all products that cost more than 5000.

**Query:**

SELECT * FROM "EC_DB".products WHERE price>5000;

**Output:**

| | product_id<br>[PK] integer | name<br>character varying (100) | description<br>text | price<br>numeric (10,2) | stock_quantity<br>integer | category_id<br>integer |
|---|---|---|---|---|---|---|
| 1 | 1 | Mobile Phone | Portable communication device with internet access and app... | 7498.65 | 28 | 1 |
| 2 | 4 | Headphones | Audio device for listening to music or calls privately. | 6992.10 | 18 | 1 |
| 3 | 6 | Shirt | Upper body garment with sleeves and a collar. | 5909.62 | 32 | 2 |
| 4 | 13 | Refrigerator | Appliance for storing food at low temperatures. | 9781.32 | 21 | 3 |
| 5 | 16 | Novel | Long work of fiction with a complex plot. | 7583.52 | 37 | 4 |
| 6 | 21 | Skincare Cream | Product for moisturizing and improving skin health. | 7258.87 | 5 | 5 |
| 7 | 22 | Shampoo | Hair care product for cleansing and conditioning hair. | 9140.97 | 23 | 5 |
| 8 | 24 | Perfume | Fragrant liquid applied to the body for scent. | 9345.83 | 5 | 5 |
| 9 | 25 | Hair Dryer | Device for drying and styling hair with hot air. | 9972.00 | 51 | 5 |
| 10 | 26 | Dumbbells | Weights used for strength training exercises. | 7900.81 | 24 | 6 |
| 11 | 27 | Treadmill | Exercise machine for walking or running indoors. | 9372.43 | 38 | 6 |
| 12 | 28 | Yoga Mat | Cushioning surface for practicing yoga and stretching. | 8779.76 | 2 | 6 |
| 13 | 32 | Wheat Flour | Ground flour used in baking and cooking. | 5478.67 | 64 | 7 |
| 14 | 33 | Pulses | Edible seeds like lentils and beans. | 8903.67 | 18 | 7 |
| 15 | 34 | Spices | Flavoring substances used in cooking. | 8525.49 | 60 | 7 |

Total rows: 22 of 22    Query complete 00:00:00.071

## 3. Select all orders that are in the "Shipped" status.

**Query:**

SELECT * FROM "EC_DB".orders WHERE status='Shipped';

**Output:**

| | order_id [PK] integer | user_id integer | order_date timestamp without time zone | shipping_address text | total_amount numeric (10,2) | status character varying (50) |
|---|---|---|---|---|---|---|
| 1 | 5 | 2 | 2024-06-23 00:00:00 | 34/91, Bhakta Ganj, Unnao 163887 | 18724.36 | Shipped |
| 2 | 11 | 8 | 2024-05-23 00:00:00 | H.No. 86, Saraf Path, Ahmednagar 489101 | 15433.64 | Shipped |
| 3 | 12 | 86 | 2024-01-03 00:00:00 | 14/98, Jain Zila, Anantapuram 026862 | 19577.50 | Shipped |
| 4 | 14 | 60 | 2024-02-09 00:00:00 | H.No. 09, Manne Chowk, Bijapur 201041 | 8697.06 | Shipped |
| 5 | 18 | 88 | 2024-01-15 00:00:00 | H.No. 979, Dey Street, Parbhani 384266 | 18181.96 | Shipped |
| 6 | 19 | 65 | 2024-06-29 00:00:00 | H.No. 747, Boase Ganj, Mau 551387 | 7825.09 | Shipped |
| 7 | 22 | 40 | 2024-05-03 00:00:00 | 89, Contractor Nagar, Rajahmundry 088224 | 11016.36 | Shipped |
| 8 | 23 | 89 | 2024-01-06 00:00:00 | 36/43, Shenoy Marg, Darbhanga-366703 | 13243.91 | Shipped |
| 9 | 25 | 82 | 2024-01-30 00:00:00 | H.No. 76, Sha, Ujjain 974775 | 3980.24 | Shipped |
| 10 | 39 | 90 | 2024-02-12 00:00:00 | 975, Bakshi Ganj, Tiruppur-849706 | 5875.17 | Shipped |
| 11 | 44 | 86 | 2024-06-12 00:00:00 | 290, Rege Marg, Agra 675513 | 8675.19 | Shipped |
| 12 | 45 | 28 | 2024-02-15 00:00:00 | 858, Sharma, Chapra-037192 | 15438.04 | Shipped |
| 13 | 50 | 77 | 2024-05-24 00:00:00 | H.No. 89, Sur, Sri Ganganagar 747900 | 1154.74 | Shipped |
| 14 | 51 | 11 | 2024-06-13 00:00:00 | 138, Ghose Street, Ulhasnagar 860692 | 12156.81 | Shipped |
| 15 | 53 | 58 | 2024-05-13 00:00:00 | 621, Sankar Nagar, Panvel 123306 | 1449.19 | Shipped |

Total rows: 28 of 28    Query complete 00:00:00.105    Ln 8, Col 22

## 4. Select all reviews with a rating of 5.

**Query:**

SELECT * FROM "EC_DB".reviews WHERE rating=5;

**Output:**

| | order_id [PK] integer | user_id integer | order_date timestamp without time zone | shipping_address text | total_amount numeric (10,2) | status character varying (50) |
|---|---|---|---|---|---|---|
| 1 | 5 | 2 | 2024-06-23 00:00:00 | 34/91, Bhakta Ganj, Unnao 163887 | 18724.36 | Shipped |
| 2 | 11 | 8 | 2024-05-23 00:00:00 | H.No. 86, Saraf Path, Ahmednagar 489101 | 15433.64 | Shipped |
| 3 | 12 | 86 | 2024-01-03 00:00:00 | 14/98, Jain Zila, Anantapuram 026862 | 19577.50 | Shipped |
| 4 | 14 | 60 | 2024-02-09 00:00:00 | H.No. 09, Manne Chowk, Bijapur 201041 | 8697.06 | Shipped |
| 5 | 18 | 88 | 2024-01-15 00:00:00 | H.No. 979, Dey Street, Parbhani 384266 | 18181.96 | Shipped |
| 6 | 19 | 65 | 2024-06-29 00:00:00 | H.No. 747, Boase Ganj, Mau 551387 | 7825.09 | Shipped |
| 7 | 22 | 40 | 2024-05-03 00:00:00 | 89, Contractor Nagar, Rajahmundry 088224 | 11016.36 | Shipped |
| 8 | 23 | 89 | 2024-01-06 00:00:00 | 36/43, Shenoy Marg, Darbhanga-366703 | 13243.91 | Shipped |
| 9 | 25 | 82 | 2024-01-30 00:00:00 | H.No. 76, Sha, Ujjain 974775 | 3980.24 | Shipped |
| 10 | 39 | 90 | 2024-02-12 00:00:00 | 975, Bakshi Ganj, Tiruppur-849706 | 5875.17 | Shipped |
| 11 | 44 | 86 | 2024-06-12 00:00:00 | 290, Rege Marg, Agra 675513 | 8675.19 | Shipped |
| 12 | 45 | 28 | 2024-02-15 00:00:00 | 858, Sharma, Chapra-037192 | 15438.04 | Shipped |
| 13 | 50 | 77 | 2024-05-24 00:00:00 | H.No. 89, Sur, Sri Ganganagar 747900 | 1154.74 | Shipped |
| 14 | 51 | 11 | 2024-06-13 00:00:00 | 138, Ghose Street, Ulhasnagar 860692 | 12156.81 | Shipped |
| 15 | 53 | 58 | 2024-05-13 00:00:00 | 621, Sankar Nagar, Panvel 123306 | 1449.19 | Shipped |

Total rows: 28 of 28    Query complete 00:00:00.105    Ln 11, Col 1

## 5. Select all categories that have "Books" in their name.

**Query:**

SELECT * FROM "EC_DB".categories WHERE category_name='Books';

**Output:**

| category_id [PK] integer | category_name character varying (100) | description text |
|---|---|---|
| 1 | 4 | Books | Printed and digital books across various genres. |

Total rows: 1 of 1    Query complete 00:00:00.078    Ln 14, Col 1

## 6. Select all products that belong to category ID 3.

**Query:**

SELECT * FROM "EC_DB".products WHERE category_id=3;

**Output:**

| | product_id [PK] integer | name character varying (100) | description text | price numeric (10,2) | stock_quantity integer | category_id integer |
|---|---|---|---|---|---|---|
| 1 | 11 | Air Conditioner | Device for cooling and controlling indoor climat... | 1095.39 | 99 | 3 |
| 2 | 12 | Washing Machine | Appliance for washing clothes automatically. | 1460.92 | 71 | 3 |
| 3 | 13 | Refrigerator | Appliance for storing food at low temperatures. | 9781.32 | 21 | 3 |
| 4 | 14 | Microwave | Appliance for quickly heating and cooking food. | 4128.38 | 61 | 3 |
| 5 | 15 | Vacuum Cleaner | Device for cleaning floors by suction. | 4826.74 | 26 | 3 |

Total rows: 5 of 5    Query complete 00:00:00.093    Ln 17, Col 52

## 7. Select all users whose last name starts with "Singh".

**Query:**

SELECT * FROM "EC_DB".users WHERE last_name LIKE 'Singh%';

**Output:**

| user_id [PK] integer | username character varying (50) | email character varying (100) | password character varying (255) | first_name character varying (50) | last_name character varying (50) | address text | phone_number character varying (20) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

Total rows: 0 of 0    Query complete 00:00:00.107    Ln 20, Col 59

## 8. Select all orders placed by user ID 10.

**Query:**

SELECT * FROM "EC_DB".orders WHERE user_id=10;

**Output:**

## 9. Select all products that have less than 10 items in stock.

**Query:**

SELECT * FROM "EC_DB".products WHERE stock_quantity<10;

**Output:**

| | product_id [PK] integer | name character varying (100) | description text | price numeric (10,2) | stock_quantity integer | category_id integer |
|---|---|---|---|---|---|---|
| 1 | 21 | Skincare Cream | Product for moisturizing and improving skin health. | 7258.87 | 5 | 5 |
| 2 | 24 | Perfume | Fragrant liquid applied to the body for scent. | 9345.83 | 5 | 5 |
| 3 | 28 | Yoga Mat | Cushioning surface for practicing yoga and stretchin... | 8779.76 | 2 | 6 |
| 4 | 38 | Building Blocks | Interlocking pieces for constructing structures. | 7214.12 | 2 | 8 |

Total rows: 4 of 4    Query complete 00:00:00.136    Ln 26, Col 56

## 10. Select all reviews written in the year 2024.

**Query:**

SELECT rev.review_id, rev.user_id, rev.product_id, rev.rating, TO_CHAR(rev.review_date, 'YYYY-MM-DD') AS review_date FROM "EC_DB".reviews AS rev WHERE review_date > '2023-12-31';

**Output:**

| | review_id [PK] integer | user_id integer | product_id integer | rating integer | review_date text |
|---|---|---|---|---|---|
| 1 | 1 | 99 | 43 | 1 | 2024-07-29 |
| 2 | 2 | 73 | 19 | 4 | 2024-03-08 |
| 3 | 3 | 5 | 20 | 1 | 2024-07-31 |
| 4 | 4 | 24 | 16 | 4 | 2024-04-06 |
| 5 | 5 | 78 | 7 | 2 | 2024-02-07 |
| 6 | 6 | 41 | 4 | 2 | 2024-06-26 |
| 7 | 7 | 79 | 26 | 5 | 2024-05-18 |
| 8 | 8 | 29 | 37 | 3 | 2024-07-23 |
| 9 | 9 | 82 | 36 | 3 | 2024-01-15 |
| 10 | 10 | 73 | 32 | 1 | 2024-07-02 |

Total rows: 100 of 100    Query complete 00:00:00.070    Ln 29, Col 179

## 11. Select all users with email addresses from "gmail.com".

**Query:**

SELECT * FROM "EC_DB".users WHERE email LIKE '%gmail.com';

**Output:**

| | user_id [PK] integer | username character varying (50) | email character varying (100) | password character varying (255) | first_name character varying (50) | last_name character varying (50) | address text |
|---|---|---|---|---|---|---|---|
| 1 | 8 | rgola | isood@gmail.com | #9II0r_9)7 | Arnav | Sastry | 59, Barman Road, Ballia 997566 |
| 2 | 15 | ravalyuvraj | vaibhav86@gmail.com | ^0#EZ2DV)z | Indranil | Shenoy | 97/16, Johal Chowk, Muzaffarnagar-568382 |
| 3 | 38 | hazel63 | anahi08@gmail.com | v+W1WMcnfF | Siya | Biswas | 781, Sule Ganj, Tiruvottiyur-678530 |
| 4 | 49 | vaibhav61 | vaggarwal@gmail.com | oR8ScW*nX% | Aayush | Dara | H.No. 991, Desai Road, Saharanpur 525352 |
| 5 | 55 | fborah | amani23@gmail.com | %jxi5Fci)I | Aradhya | Tata | H.No. 68, Gandhi Marg, Phagwara-359368 |
| 6 | 62 | hborde | romilchopra@gmail.com | nH7VBf$y)f | Raghav | Sanghvi | H.No. 151, Yadav Road, Ahmedabad 143977 |
| 7 | 65 | isuri | annefateh@gmail.com | S5rfIFKa+e | Indranil | Gala | 17/474, Bhandari Zila, Pali 157809 |

Total rows: 13 of 13    Query complete 00:00:00.075    Ln 32, Col 1

## 12. Select all products with the name "Laptop".

**Query:**

SELECT * FROM "EC_DB".products WHERE name='Laptop';

**Output:**

| | product_id [PK] integer | name character varying (100) | description text | price numeric (10,2) | stock_quantity integer | category_id integer |
|---|---|---|---|---|---|---|
| 1 | 2 | Laptop | Compact computer for personal and professional use. | 2100.47 | 69 | 1 |

Total rows: 1 of 1    Query complete 00:00:00.080    Ln 35, Col 1

## 13. Select all orders with a total amount greater than 10000.

**Query:**

SELECT * FROM "EC_DB".orders WHERE total_amount>10000;
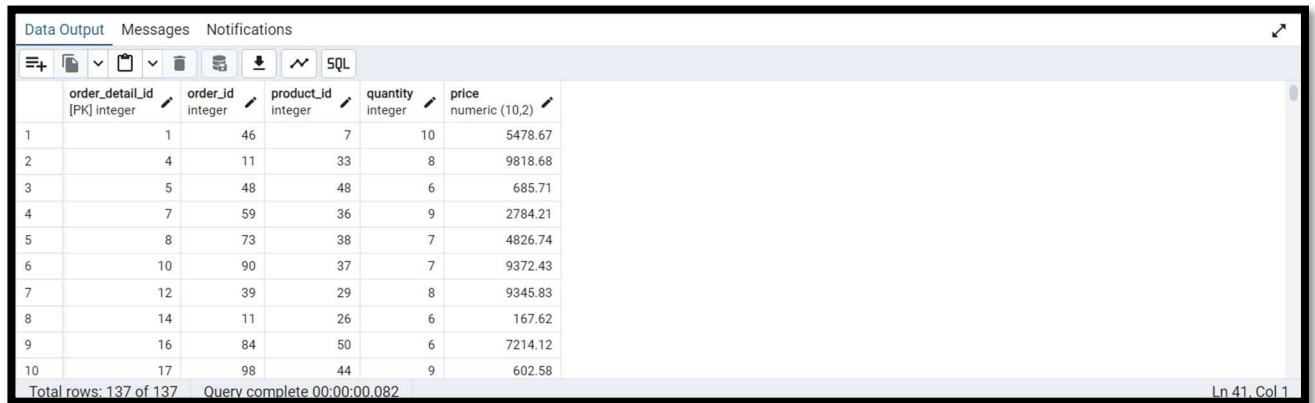
**Output:**

| | order_id [PK] integer | user_id integer | order_date timestamp without time zone | shipping_address text | total_amount numeric (10,2) | status character varying (50) |
|---|---|---|---|---|---|---|
| 1 | 4 | 74 | 2024-03-24 00:00:00 | H.No. 27, Ramachandran Zila, Deoghar-341593 | 19885.41 | Pending |
| 2 | 5 | 2 | 2024-06-23 00:00:00 | 34/91, Bhakta Ganj, Unnao 163887 | 18724.36 | Shipped |
| 3 | 7 | 84 | 2024-04-02 00:00:00 | 728, Kamdar Path, Satara-064339 | 18708.62 | Delivered |
| 4 | 10 | 31 | 2024-04-04 00:00:00 | H.No. 43, Krishnamurthy Marg, Rajpur Sonarpur 927600 | 15494.96 | Pending |
| 5 | 11 | 8 | 2024-05-23 00:00:00 | H.No. 86, Saraf Path, Ahmednagar 489101 | 15433.64 | Shipped |
| 6 | 12 | 86 | 2024-01-03 00:00:00 | 14/98, Jain Zila, Anantapuram 026862 | 19577.50 | Shipped |
| 7 | 13 | 16 | 2024-07-05 00:00:00 | 49, Jaggi Path, Bardhaman 063304 | 13094.68 | Cancelled |
| 8 | 15 | 40 | 2024-06-18 00:00:00 | 37/072, Sane Zila, Tezpur 667363 | 19860.70 | Delivered |
| 9 | 17 | 52 | 2024-06-01 00:00:00 | H.No. 314, Dhaliwal Street, Katni-433242 | 17457.60 | Pending |
| 10 | 18 | 88 | 2024-01-15 00:00:00 | H.No. 979, Dey Street, Parbhani 384266 | 18181.96 | Shipped |

Total rows: 53 of 53    Query complete 00:00:00.121    Ln 38, Col 1

14. **Select all order details where the quantity ordered is greater than 5.**

**Query:**

SELECT * FROM "EC_DB".order_details WHERE quantity>5;

**Output:**

| | order_detail_id [PK] integer | order_id integer | product_id integer | quantity integer | price numeric (10,2) |
|---|---|---|---|---|---|
| 1 | 1 | 46 | 7 | 10 | 5478.67 |
| 2 | 4 | 11 | 33 | 8 | 9818.68 |
| 3 | 5 | 48 | 48 | 6 | 685.71 |
| 4 | 7 | 59 | 36 | 9 | 2784.21 |
| 5 | 8 | 73 | 38 | 7 | 4826.74 |
| 6 | 10 | 90 | 37 | 7 | 9372.43 |
| 7 | 12 | 39 | 29 | 8 | 9345.83 |
| 8 | 14 | 11 | 26 | 6 | 167.62 |
| 9 | 16 | 84 | 50 | 6 | 7214.12 |
| 10 | 17 | 98 | 44 | 9 | 602.58 |

Total rows: 137 of 137    Query complete 00:00:00.082    Ln 41, Col 1

15. **Select all users who live in "Mumbai".**

**Query:**

SELECT * FROM "EC_DB".users WHERE address LIKE '%Mumbai%';

**Output:**

| user_id [PK] integer | username character varying (50) | email character varying (100) | password character varying (255) | first_name character varying (50) | last_name character varying (50) | address text | phone_number character varying (20) |
|---|---|---|---|---|---|---|---|

Total rows: 0 of 0    Query complete 00:00:00.136    Ln 44, Col 59

16. **Select all categories with descriptions containing the word "technology".**

**Query:**

SELECT * FROM "EC_DB".categories  WHERE description LIKE '%technology%';

**Output:**

| category_id [PK] integer | category_name character varying (100) | description text |
|---|---|---|

Total rows: 0 of 0    Query complete 00:00:00.079    Ln 47, Col 1

## 17. Select all products that belong to the "Electronics" category.

**Query:**

SELECT pro.product_id, pro.name, pro.price, pro.category_id FROM "EC_DB".products AS pro JOIN "EC_DB".categories AS cat ON pro.category_id = cat.category_id AND cat.category_name = 'Electronics';

**Output:**

| product_id [PK] integer | name character varying (100) | price numeric (10,2) | category_id integer |
|---|---|---|---|
| 1 | Mobile Phone | 7498.65 | 1 |
| 2 | Laptop | 2100.47 | 1 |
| 3 | Smart Watch | 2784.21 | 1 |
| 4 | Headphones | 6992.10 | 1 |
| 5 | Tablet | 1181.34 | 1 |

Total rows: 5 of 5    Query complete 00:00:00.074    Ln 50, Col 196

## 18. Select all orders placed on "2024-01-01".

**Query:**

SELECT ord.order_id, ord.user_id, TO_CHAR(ord.order_date, 'YYYY-MM-DD') AS order_date, ord.total_amount, ord.status FROM "EC_DB".orders AS ord WHERE order_date = '2024-01-01';

**Output:**

| order_id [PK] integer | user_id integer | order_date text | total_amount numeric (10,2) | status character varying (50) |
|---|---|---|---|---|
| 63 | 26 | 2024-01-01 | 14764.59 | Delivered |

Total rows: 1 of 1    Query complete 00:00:00.100    Ln 53, Col 176

## 19. Select all reviews with the comment containing the word "excellent".

**Query:**

SELECT * FROM "EC_DB".reviews WHERE comment LIKE '%excellent%';

**Output:**

## 20. Select all users whose phone number starts with "+91".

**Query:**

SELECT * FROM "EC_DB".users WHERE phone_number LIKE '+91%';

**Output:**