## **/\*Retrieved tables\*/**

/\* Here questions regarding the database were asked and answered using SQL codes to retrieve answerdes\*/

1) Retrieve all the products that sell quickly\*

SELECT prod\_ID, prod\_name, prod\_instock, prod\_date, prod\_sold, prod\_QOH, prod\_price

FROM Products

WHERE prod\_instock = 200 AND prod\_QOH <= 5 AND prod\_date >= '2022-10-01' AND prod\_date <= '2023-01-31';

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **prod\_ID** | **prod\_name** | **prod\_instock** | **prod\_date** | **prod\_sold** | **prod\_QOH** | **prod\_price** |
| **2** | Converse | 200 | 2022-10-01 | 198 | 2 | 160.00 |
| **3** | Roxy | 200 | 2022-12-01 | 198 | 2 | 34.99 |
| **4** | Nike | 200 | 2022-11-01 | 196 | 4 | 125.00 |
| **5** | Clarks | 200 | 2022-10-01 | 199 | 1 | 124.99 |
| **7** | New Balance | 200 | 2022-11-01 | 198 | 2 | 84.99 |
| **8** | Maidden Girl | 200 | 2022-11-03 | 196 | 4 | 99.95 |
| **9** | Adidas Samba | 200 | 2022-12-01 | 198 | 2 | 70.00 |
| **12** | Nike Air Max | 200 | 2022-12-08 | 196 | 4 | 120.00 |
| **19** | Wide Width Loafers | 200 | 2022-12-04 | 195 | 5 | 60.00 |
| **21** | Wedges Ankle Strap | 200 | 2022-11-02 | 195 | 5 | 65.00 |
| **23** | Adidas Ultraboost | 200 | 2022-12-12 | 196 | 4 | 180.00 |
| **26** | Drawstring Backpack | 200 | 2022-11-03 | 195 | 5 | 25.00 |
| **28** | Silk Scarf | 200 | 2023-01-01 | 45 | 5 | 20.00 |
| **33** | Shoe Polish (black) | 200 | 2022-10-01 | 196 | 4 | 5.00 |
| **35** | Leather Cleaner | 200 | 2022-12-04 | 20 | 2 | 8.00 |
| **36** | Shoe Deodorizer | 200 | 2022-11-05 | 195 | 5 | 6.00 |
| **42** | Shoe Laces (flat) | 200 | 2022-12-04 | 196 | 4 | 3.00 |
| **46** | Shoe Horn | 200 | 2022-11-02 | 198 | 2 | 7.50 |
| **48** | Loafers Tassel | 200 | 2022-11-09 | 197 | 3 | 70.00 |
| **49** | Nike Air Force 1 | 200 | 2022-10-04 | 45 | 4 | 90.00 |

2) Retrieve all the products that sell slow\*

SELECT prod\_ID, prod\_name, prod\_instock, prod\_date, prod\_sold, prod\_QOH, prod\_price

FROM Products

WHERE prod\_instock = 200 AND prod\_QOH > 150 AND prod\_date >= '2022-10-01' AND prod\_date <= '2023-01-31';

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **prod\_ID** | **prod\_name** | **prod\_instock** | **prod\_date** | **prod\_sold** | **prod\_QOH** | **prod\_price** |
| **13** | Clarks Desert | 200 | 2023-01-01 | 10 | 190 | 130.00 |
| **24** | Leather Handbag | 200 | 2022-11-01 | 30 | 170 | 50.00 |
| **25** | Canvas Tote Bag | 200 | 2022-11-02 | 40 | 160 | 30.00 |
| **29** | Wool Shawl | 200 | 2022-12-13 | 40 | 160 | 36.00 |
| **32** | Boot Socks (2pk) | 200 | 2022-11-09 | 5 | 195 | 15.00 |
| **37** | Shoe Deodorizer | 200 | 2022-10-07 | 20 | 180 | 7.00 |
| **38** | Shoe Rack (2-tier) | 200 | 2023-01-01 | 30 | 170 | 25.00 |
| **40** | Shoe Bag (single) | 200 | 2022-11-04 | 1 | 199 | 2.50 |
| **43** | Shoe Insoles (leather) | 200 | 2023-01-01 | 44 | 156 | 10.00 |
| **44** | Shoe Insoles (foam) | 200 | 2022-10-03 | 10 | 190 | 5.00 |
| **47** | Shoe Trees (cedar) | 200 | 2022-11-01 | 20 | 152 | 15.00 |

3) Retrieve all the current customers (from 2020 to 2023) from the Customer table.

SELECT cus\_ID, cus\_name, cus\_Odate

FROM Customers

WHERE YEAR(cus\_Odate) BETWEEN 2020 AND 2023;

|  |  |  |
| --- | --- | --- |
| **cus\_ID** | **cus\_name** | **cus\_Odate** |
| **1** | Linda Brown | 2023-01-03 |
| **2** | Mark Johnson | 2021-03-01 |
| **3** | Samantha Lee | 2022-05-01 |
| **4** | David Green | 2022-06-01 |
| **5** | Brian Davis | 2022-10-01 |
| **6** | Anna Brown | 2022-12-01 |
| **7** | Michael Davis | 2022-11-01 |
| **8** | Jessica Black | 2022-09-01 |
| **9** | Andrew Clark | 2022-07-01 |
| **14** | Jane Doe | 2022-10-01 |
| **15** | John Dawson | 2022-03-10 |
| **16** | Bob Jones | 2021-04-09 |
| **17** | Raven Smith | 2022-03-04 |
| **18** | Amy Castro | 2021-05-08 |
| **19** | Jammy Ruiz | 2020-09-04 |
| **20** | Oliver Lee | 2021-10-01 |
| **21** | Evelyn Ozborne | 2022-01-02 |
| **22** | John Smith | 2023-01-01 |
| **23** | Bob Johnson | 2022-09-12 |
| **24** | John Smith | 2022-01-01 |
| **25** | Mary Johnson | 2022-01-02 |
| **26** | Tom Williams | 2022-01-03 |
| **27** | Samantha Davis | 2022-01-04 |
| **28** | Bob Anderson | 2022-01-05 |
| **29** | Jenny Lee | 2022-01-06 |
| **30** | Alex Wright | 2022-01-07 |
| **31** | Emily Wilson | 2022-01-08 |
| **32** | Mike Brown | 2022-01-09 |
| **33** | Katie Jones | 2022-01-10 |
| **34** | Chris Taylor | 2022-01-11 |
| **35** | Jessica Green | 2022-01-12 |
| **36** | David Rodriguez | 2022-01-13 |
| **37** | Karen Martinez | 2022-01-14 |
| **38** | Andrew Kim | 2022-01-15 |
| **39** | Linda Chen | 2022-01-16 |
| **40** | Scott Lee | 2022-01-17 |
| **41** | Rachel Kim | 2022-01-18 |
| **42** | Daniel Lee | 2022-01-19 |
| **43** | John Smith | 2022-01-01 |
| **44** | Mary Johnson | 2022-01-02 |
| **45** | Tom Williams | 2022-01-03 |
| **46** | Samantha Davis | 2022-01-04 |
| **47** | Bob Anderson | 2022-01-05 |
| **48** | Jenny Lee | 2022-01-06 |
| **49** | Alex Wright | 2022-01-07 |
| **50** | Emily Wilson | 2022-01-08 |
| **51** | Mike Brown | 2022-01-09 |
| **52** | Katie Jones | 2022-01-10 |
| **53** | Chris Taylor | 2022-01-11 |
| **54** | Jessica Green | 2022-01-12 |
| **55** | David Rodriguez | 2022-01-13 |
| **56** | Karen Martinez | 2022-01-14 |
| **57** | Andrew Kim | 2022-01-15 |
| **58** | Linda Chen | 2022-01-16 |
| **59** | Scott Lee | 2022-01-17 |
| **60** | Rachel Kim | 2022-01-18 |
| **61** | Daniel Lee | 2022-01-19 |

4) Retrieve all the customers whose accounts are overdue together with the respective products they purchased.

SELECT Customers.cus\_ID, Customers.cus\_name, Products.prod\_name, Accounts.acc\_dueD

FROM Accounts

JOIN Customers ON Accounts.cus\_ID = Customers.cus\_ID

JOIN Products ON Accounts.prod\_type = Products.prod\_type

WHERE Accounts.acc\_dueD < acc\_payD;

|  |  |  |  |
| --- | --- | --- | --- |
| **cus\_ID** | **cus\_name** | **prod\_name** | **acc\_dueD** |
| **2** | Mark Johnson | Adidas | 2022-07-15 |
| **1** | Linda Brown | Adidas | 2022-06-15 |
| **5** | Brian Davis | Adidas | 2022-05-15 |
| **4** | David Green | Adidas | 2022-04-15 |
| **3** | Samantha Lee | Adidas | 2022-03-15 |
| **2** | Mark Johnson | Adidas | 2022-02-15 |
| **1** | Linda Brown | Adidas | 2022-01-15 |
| **2** | Mark Johnson | Converse | 2022-07-15 |
| **1** | Linda Brown | Converse | 2022-06-15 |
| **5** | Brian Davis | Converse | 2022-05-15 |
| **4** | David Green | Converse | 2022-04-15 |
| **3** | Samantha Lee | Converse | 2022-03-15 |
| **2** | Mark Johnson | Converse | 2022-02-15 |
| **1** | Linda Brown | Converse | 2022-01-15 |
| **2** | Mark Johnson | Roxy | 2022-07-15 |
| **1** | Linda Brown | Roxy | 2022-06-15 |
| **5** | Brian Davis | Roxy | 2022-05-15 |
| **4** | David Green | Roxy | 2022-04-15 |
| **3** | Samantha Lee | Roxy | 2022-03-15 |
| **2** | Mark Johnson | Roxy | 2022-02-15 |
| **1** | Linda Brown | Roxy | 2022-01-15 |
| **2** | Mark Johnson | Nike | 2022-07-15 |
| **1** | Linda Brown | Nike | 2022-06-15 |
| **5** | Brian Davis | Nike | 2022-05-15 |
| **4** | David Green | Nike | 2022-04-15 |
| **3** | Samantha Lee | Nike | 2022-03-15 |
| **2** | Mark Johnson | Nike | 2022-02-15 |
| **1** | Linda Brown | Nike | 2022-01-15 |
| **2** | Mark Johnson | Clarks | 2022-07-15 |
| **1** | Linda Brown | Clarks | 2022-06-15 |
| **5** | Brian Davis | Clarks | 2022-05-15 |
| **4** | David Green | Clarks | 2022-04-15 |
| **3** | Samantha Lee | Clarks | 2022-03-15 |
| **2** | Mark Johnson | Clarks | 2022-02-15 |
| **1** | Linda Brown | Clarks | 2022-01-15 |
| **2** | Mark Johnson | Puma | 2022-07-15 |
| **1** | Linda Brown | Puma | 2022-06-15 |
| **5** | Brian Davis | Puma | 2022-05-15 |
| **4** | David Green | Puma | 2022-04-15 |
| **3** | Samantha Lee | Puma | 2022-03-15 |
| **2** | Mark Johnson | Puma | 2022-02-15 |
| **1** | Linda Brown | Puma | 2022-01-15 |
| **2** | Mark Johnson | New Balance | 2022-07-15 |
| **1** | Linda Brown | New Balance | 2022-06-15 |
| **5** | Brian Davis | New Balance | 2022-05-15 |
| **4** | David Green | New Balance | 2022-04-15 |
| **3** | Samantha Lee | New Balance | 2022-03-15 |
| **2** | Mark Johnson | New Balance | 2022-02-15 |
| **1** | Linda Brown | New Balance | 2022-01-15 |
| **2** | Mark Johnson | Maidden Girl | 2022-07-15 |
| **1** | Linda Brown | Maidden Girl | 2022-06-15 |
| **5** | Brian Davis | Maidden Girl | 2022-05-15 |
| **4** | David Green | Maidden Girl | 2022-04-15 |
| **3** | Samantha Lee | Maidden Girl | 2022-03-15 |
| **2** | Mark Johnson | Maidden Girl | 2022-02-15 |
| **1** | Linda Brown | Maidden Girl | 2022-01-15 |
| **5** | Brian Davis | Adidas Samba | 2022-10-15 |
| **4** | David Green | Adidas Samba | 2022-09-15 |
| **3** | Samantha Lee | Adidas Samba | 2022-08-15 |
| **3** | Samantha Lee | Converse Chuck | 2023-01-15 |
| **3** | Samantha Lee | Roxy Bayshore | 2023-01-15 |
| **3** | Samantha Lee | Nike Air Max | 2023-12-01 |
| **23** | Bob Johnson | Nike Air Max | 2022-05-01 |
| **4** | David Green | Nike Air Max | 2023-02-15 |
| **1** | Linda Brown | Nike Air Max | 2022-11-15 |
| **3** | Samantha Lee | Clarks Desert | 2023-06-15 |
| **2** | Mark Johnson | Clarks Desert | 2022-12-15 |
| **3** | Samantha Lee | Puma Smash | 2023-01-15 |
| **3** | Samantha Lee | New Balance 990 | 2023-12-01 |
| **23** | Bob Johnson | New Balance 990 | 2022-05-01 |
| **4** | David Green | New Balance 990 | 2023-02-15 |
| **1** | Linda Brown | New Balance 990 | 2022-11-15 |
| **5** | Brian Davis | Madden Girl Sable | 2023-03-15 |
| **1** | Linda Brown | Sandals Flat | 2023-04-15 |
| **3** | Samantha Lee | Boots Heeled | 2023-06-15 |
| **2** | Mark Johnson | Boots Heeled | 2022-12-15 |
| **5** | Brian Davis | Wide Width Loafers | 2023-08-15 |
| **4** | David Green | Wide Width Loafers | 2023-07-15 |
| **5** | Brian Davis | Causal Slip-ons | 2023-08-15 |
| **4** | David Green | Causal Slip-ons | 2023-07-15 |
| **21** | Evelyn Ozborne | Wedges Ankle Strap | 2022-03-01 |
| **22** | John Smith | Flats Ballet | 2022-04-01 |
| **3** | Samantha Lee | Adidas Ultraboost | 2023-12-01 |
| **23** | Bob Johnson | Adidas Ultraboost | 2022-05-01 |
| **4** | David Green | Adidas Ultraboost | 2023-02-15 |
| **1** | Linda Brown | Adidas Ultraboost | 2022-11-15 |
| **25** | Mary Johnson | Leather Handbag | 2022-07-01 |
| **24** | John Smith | Leather Handbag | 2022-06-01 |
| **25** | Mary Johnson | Canvas Tote Bag | 2022-07-01 |
| **24** | John Smith | Canvas Tote Bag | 2022-06-01 |
| **26** | Tom Williams | Drawstring Backpack | 2022-08-01 |
| **27** | Samantha Davis | Duffel Bag | 2022-09-01 |
| **29** | Jenny Lee | Silk Scarf | 2022-11-01 |
| **28** | Bob Anderson | Silk Scarf | 2022-10-01 |
| **29** | Jenny Lee | Wool Shawl | 2022-11-01 |
| **28** | Bob Anderson | Wool Shawl | 2022-10-01 |
| **31** | Emily Wilson | Ankle socks (6 pks) | 2023-01-01 |
| **33** | Katie Jones | Knee-High Socks (3pks) | 2023-03-01 |
| **32** | Mike Brown | Knee-High Socks (3pks) | 2023-02-01 |
| **33** | Katie Jones | Boot Socks (2pk) | 2023-03-01 |
| **32** | Mike Brown | Boot Socks (2pk) | 2023-02-01 |
| **35** | Jessica Green | Shoe Polish (brown) | 2023-05-01 |
| **5** | Brian Davis | Leather Cleaner | 2023-10-05 |
| **38** | Andrew Kim | Leather Cleaner | 2023-08-01 |
| **37** | Karen Martinez | Leather Cleaner | 2023-07-01 |
| **36** | David Rodriguez | Leather Cleaner | 2023-06-01 |
| **5** | Brian Davis | Shoe Deodorizer | 2023-10-05 |
| **38** | Andrew Kim | Shoe Deodorizer | 2023-08-01 |
| **37** | Karen Martinez | Shoe Deodorizer | 2023-07-01 |
| **36** | David Rodriguez | Shoe Deodorizer | 2023-06-01 |
| **5** | Brian Davis | Shoe Deodorizer | 2023-10-05 |
| **38** | Andrew Kim | Shoe Deodorizer | 2023-08-01 |
| **37** | Karen Martinez | Shoe Deodorizer | 2023-07-01 |
| **36** | David Rodriguez | Shoe Deodorizer | 2023-06-01 |
| **4** | David Green | Shoe Rack (2-tier) | 2023-03-01 |
| **40** | Scott Lee | Shoe Rack (2-tier) | 2023-10-01 |
| **39** | Linda Chen | Shoe Rack (2-tier) | 2023-09-01 |
| **4** | David Green | Shoe Rack (3-tier) | 2023-03-01 |
| **40** | Scott Lee | Shoe Rack (3-tier) | 2023-10-01 |
| **39** | Linda Chen | Shoe Rack (3-tier) | 2023-09-01 |
| **4** | David Green | Shoe Bag (single) | 2023-03-01 |
| **40** | Scott Lee | Shoe Bag (single) | 2023-10-01 |
| **39** | Linda Chen | Shoe Bag (single) | 2023-09-01 |
| **5** | Brian Davis | Shoe Laces (round) | 2023-05-03 |
| **1** | Linda Brown | Shoe Laces (round) | 2023-04-05 |
| **5** | Brian Davis | Shoe Laces (flat) | 2023-05-03 |
| **1** | Linda Brown | Shoe Laces (flat) | 2023-04-05 |
| **3** | Samantha Lee | Shoe Insoles (leather) | 2023-07-01 |
| **2** | Mark Johnson | Shoe Insoles (leather) | 2023-06-02 |
| **3** | Samantha Lee | Shoe Insoles (foam) | 2023-07-01 |
| **2** | Mark Johnson | Shoe Insoles (foam) | 2023-06-02 |
| **1** | Linda Brown | Boot Jack | 2023-09-02 |
| **4** | David Green | Boot Jack | 2023-08-03 |
| **1** | Linda Brown | Shoe Horn | 2023-09-02 |
| **4** | David Green | Shoe Horn | 2023-08-03 |
| **5** | Brian Davis | Shoe Trees (cedar) | 2023-10-05 |
| **38** | Andrew Kim | Shoe Trees (cedar) | 2023-08-01 |
| **37** | Karen Martinez | Shoe Trees (cedar) | 2023-07-01 |
| **36** | David Rodriguez | Shoe Trees (cedar) | 2023-06-01 |
| **2** | Mark Johnson | Loafers Tassel | 2023-11-03 |
| **3** | Samantha Lee | Nike Air Force 1 | 2023-12-01 |
| **23** | Bob Johnson | Nike Air Force 1 | 2022-05-01 |
| **4** | David Green | Nike Air Force 1 | 2023-02-15 |
| **1** | Linda Brown | Nike Air Force 1 | 2022-11-15 |
| **3** | Samantha Lee | Roxy Bayshore II | 2023-01-15 |