

## Lab 8

1. Create database Sales.
2. Create tables users, products, orders and fill them from attached file CREATE db Sales.txt.
3. Create a view named cheap\_and\_light\_products that includes products with a price less than \$100 and a weight less than 10. Check to ensure that new rows satisfy the view-defining condition.
4. Insert new value (101, 'Awesome Hot Chips', 'Grocery', 10, 2) into cheap\_and\_light\_products. Can you do this? Why?
5. Insert new value (103, 'Soft Flannel Shirt', 'Clothes', 105, 1) into cheap\_and\_light\_products. Can you do this? Why?
6. Create VIEW order\_user with information about user's full name and order ID.
7. Retrieve full name from created order\_user view, date of order for users, whose orders aren't shipped yet.

user_name text	order_date date
Caden Turcotte	2023-11-08
Miller Feil	2023-11-08
Arely McGlynn	2023-11-09
Elliot Oberbrunner	2023-11-09
Irma Wintheiser	2023-11-10
Ruby Turner	2023-11-10
Violette Heathcote	2023-11-10

8. Retrieve full name of users who have placed orders in the 'Tools' department and paid for the order, use order\_user view.

user_name text
Kailee Jacobson
Kathryn Mueller
Lindsay Yost
Rosendo Sawayn
Elliot Oberbrunner

9. List the users who have placed orders in the last 7 days, use order\_user view.

user_name
text
Elliot Oberbrunner
Garth McLaughlin
Max Goodwin
Armand Kshlerin
Vinnie Feest
Kailee Jacobson
Irma Wintheiser
Armand Kshlerin
Kathryn Mueller
Jermaine Langosh
Caden Turcotte
Rosendo Sawayn
Neha Hyatt

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10. Change order\_user view: retrieve user's full name and order ID just for unpaid orders.

11. Create VIEW user\_sum to find the users who have placed orders and their total spending (sum of product prices) on those orders.

id	first_name	last_name	total_spending
integer	character varying	character varying	bigint
22	Orlando	Kerluke	2570
44	Johathan	Kirlin	1315
11	Vinnie	Feest	1661
42	Arely	McGlynn	388
40	Albertha	Yundt	1744
43	Lawrence	Casper	1005
15	Neha	Hyatt	1304
48	Sally	Mann	408
26	Alexanne	Dickens	211

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12. Find the users whose total spending less than 500, use view user\_sum.

id integer	first_name character varying	last_name character varying	total_spending bigint
42	Arely	McGlynn	388
48	Sally	Mann	408
26	Alexanne	Dickens	211
35	Garth	McLaughlin	273
1	Iva	Lindgren	328

13. Delete all created views.