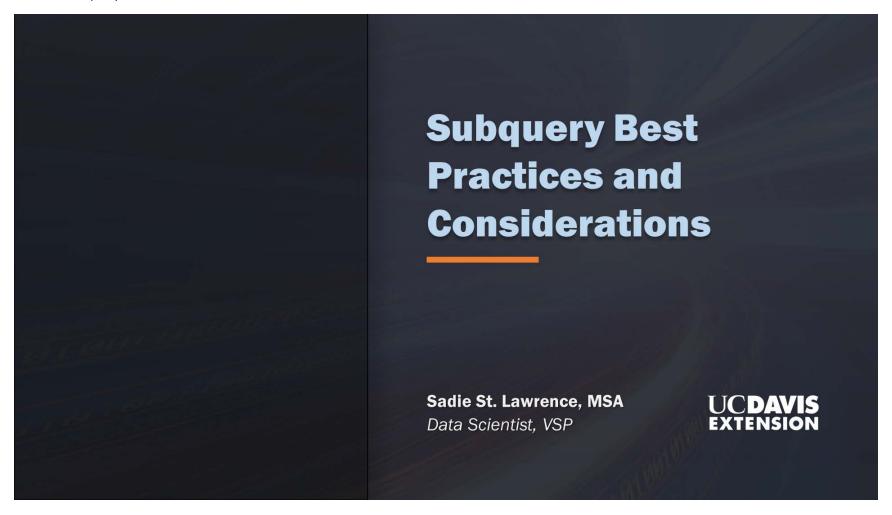
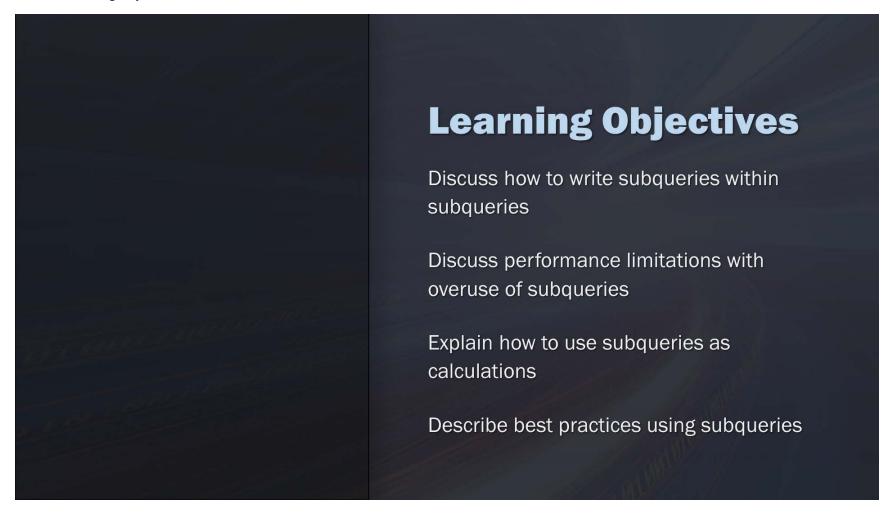
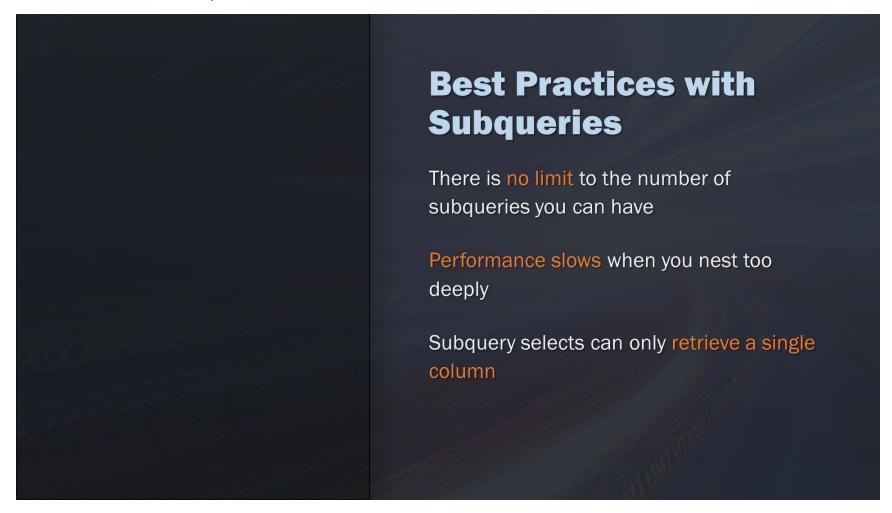
Slide 1: Subquery Best Practices and Considerations



Slide 2: Learning Objectives



Slide 3: Best Practices With Subqueries



Slide 4: Subquery in Subquery

Subquery in Subquery 1. Order numbers for toothbrushes 2. Customer ID's for those orders 3. Customer information for those orders SELECT Customer_name, Customer_contact FROM Customers WHERE cust_id IN SELECT customer_id FROM Orders WHERE order_number IN (SELECT order_number FROM OrderItems WHERE prod_name = 'Toothbrush');

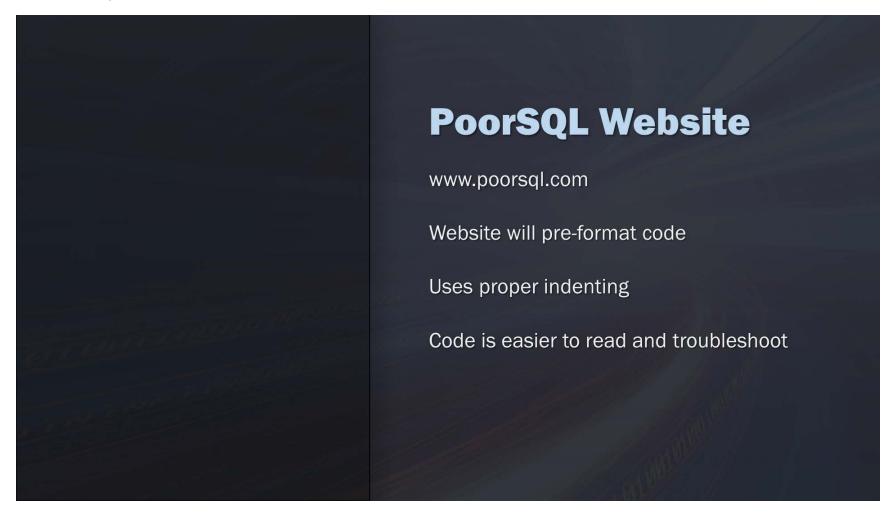
Slide 5: Subquery in Subquery

Subquery in Subquery 1. Order numbers for toothbrushes 2. Customer ID's for those orders 3. Customer information for those orders SELECT Customer_name, Customer_contact FROM Customers WHERE cust_id IN SELECT customer_id FROM Orders WHERE order_number IN (SELECT order_number FROM OrderItems WHERE prod_name = 'Toothbrush');

Slide 6: Subquery in Subquery

Subquery in Subquery 1. Order numbers for toothbrushes 2. Customer ID's for those orders 3. Customer information for those orders SELECT Customer_name, Customer_contact FROM Customers WHERE cust_id IN SELECT customer_id FROM Orders WHERE order_number IN (SELECT order_number FROM OrderItems WHERE prod_name = 'Toothbrush');

Slide 7: PoorSQL Website



Slide 8: Subqueries for Calculations

Subqueries for Calculations

Total number of orders placed by every customer

| Customer_name | Customer_state | Orders |
|---------------|----------------|--------|
| Becky | IA | 5 |
| Nita | CA | 6 |
| Raj | ОН | 0 |
| Steve | AZ | 1 |

```
SELECT COUNT (*) AS orders
FROM Orders
WHERE customer_id = '143569';

SELECT customer_name
   ,customer_state
   (SELECT COUNT (*) AS orders
   FROM Orders
   WHERE Orders.customer_id =
Customer.customer_id) AS orders
FROM customers
ORDER BY Customer_name
```

Slide 9: The Power of Subqueries

