

### 1. Group Books by genre

```
CREATE OR REPLACE PROCEDURE sort
IS
BEGIN
    FOR r_book IN (
        SELECT genre, SUM(price) total_price
        FROM book
        GROUP BY genre
    ) LOOP
        DBMS_OUTPUT.PUT_LINE('Genre: ' || r_book.genre || ', Total Price: ' || r_book.total_price);
    END LOOP;
END;

begin
    sort;
end;
```

### 2. Group inventory by book

```
CREATE OR REPLACE PROCEDURE list
IS
BEGIN
    FOR r_inventory IN (
        SELECT i.book_id, b.title, SUM(i.quantity) total_quantity,
        SUM(i.sell_price - i.purchase_price) total_profit
        FROM inventory i
        JOIN book b ON i.book_id = b.book_id
        GROUP BY i.book_id, b.title
    ) LOOP
        DBMS_OUTPUT.PUT_LINE('Book: ' || r_inventory.title || ', Total Quantity: ' || r_inventory.total_quantity || ', Total Profit: ' || r_inventory.total_profit);
    END LOOP;
END;

begin
    list;
end;
```

### 3. Group payments by the method

```
CREATE OR REPLACE PROCEDURE sorting
IS
BEGIN
    FOR r_payments IN (
        SELECT payment_method, SUM(amount) total_amount
        FROM payment
        GROUP BY payment_method
    ) LOOP
```

```

        DBMS_OUTPUT.PUT_LINE('Payment Method: ' ||
r_payments.payment_method || ', Total Amount: ' ||
r_payments.total_amount);
    END LOOP;
END;

```

```

begin
    sorting;
end;

```

#### 4. Group shipping by address

```

CREATE OR REPLACE PROCEDURE delivery
IS
BEGIN
    FOR r_shipping IN (
        SELECT shipping_address, COUNT(DISTINCT order_id)
total_orders_shipped
        FROM shipping
        GROUP BY shipping_address
    ) LOOP
        DBMS_OUTPUT.PUT_LINE('Shipping Address: ' ||
r_shipping.shipping_address || ', Total Orders Shipped: ' ||
r_shipping.total_orders_shipped);
    END LOOP;
END;

begin
    delivery;
end;

```

#### 5. Group carts by customer

```

CREATE OR REPLACE PROCEDURE basket
IS
BEGIN
    FOR r_carts IN (
        SELECT customer_id, SUM(total_price) total_cart_price
        FROM shopping_cart
        GROUP BY customer_id
    ) LOOP
        DBMS_OUTPUT.PUT_LINE('Customer ID: ' || r_carts.customer_id || ',
Total Cart Price: ' || r_carts.total_cart_price);
    END LOOP;
END;

begin
    basket;
end;

```