```
Procedure which does group by information
```

end;

```
CREATE OR REPLACE PROCEDURE get product category summary
BEGIN
FOR c IN (SELECT Sneaker Model.brand, COUNT(*) AS ProductCount,
SUM(Sneaker_Model_Variant.quantity_available) AS TotalQuantity, AVG(Sneaker_Model.price) AS AveragePrice
      FROM Sneaker Model
      JOIN Sneaker_Model_Variant ON Sneaker_Model.sneaker_model_id = Sneaker_Model_Variant.sneaker_model_id
      GROUP BY Sneaker Model.brand)
LOOP
 DBMS_OUTPUT_LINE(c.brand || ': ' || c.ProductCount || ' products, ' || c.TotalQuantity || ' total quantity, average
price: '|| c.AveragePrice);
END LOOP;
END;
begin
  get_product_category_summary;
```

Function which counts the number of records

END;

DBMS OUTPUT.PUT LINE('Number of records: ' || v count);

```
CREATE OR REPLACE FUNCTION count_records(Buyer IN VARCHAR) RETURN NUMBER AS v_count NUMBER;
BEGIN
EXECUTE IMMEDIATE 'SELECT COUNT(*) FROM ' || Buyer INTO v_count;
RETURN v_count;
END;

DECLARE
v_count NUMBER;
BEGIN
v_count := count_records('Buyer');
```

Procedure which uses SQL%ROWCOUNT to determine the number of rows affected

```
CREATE OR REPLACE PROCEDURE update_price(price_change IN DECIMAL) AS
BEGIN
UPDATE Sneaker_Model
 SET price = price + price_change;
IF SQL\%ROWCOUNT = 0 THEN
 DBMS_OUTPUT_LINE('No rows were updated.');
ELSE
 DBMS_OUTPUT_LINE(SQL%ROWCOUNT || ' rows were updated.');
END IF;
END;
BEGIN
update_price(10000.00); -- passing a price_change value of 10000.00
END;
```

Create a trigger before insert on any entity which will show the current number of rows in the table

```
CREATE OR REPLACE TRIGGER show_row_count
BEFORE INSERT ON Courier
DECLARE
v_row_count NUMBER;
BEGIN
SELECT COUNT(*) INTO v_row_count FROM Buyer;
DBMS_OUTPUT_LINE('The current number of rows in the table is: ' || v_row_count);
END;
```

```
Add user-defined exception which disallows to enter title of item (e.g. book) to be less than 5 characters
CREATE OR REPLACE PROCEDURE insert_item (
 c courier id IN NUMBER,
 c courier name IN VARCHAR2,
 c courier phone number IN VARCHAR2,
 c courier email IN VARCHAR2
) AS
 title length EXCEPTION;
BEGIN
 IF LENGTH(c courier phone number) < 5 THEN
  RAISE title_length;
 END IF:
 INSERT INTO Courier (courier id, courier name, courier phone number, courier email)
 VALUES (c courier id, c courier name, c courier phone number, c courier email);
 COMMIT;
EXCEPTION
 WHEN title length THEN
  RAISE APPLICATION ERROR(-20001, 'Courier phone number must be at least 5 characters long');
END:
BEGIN
  insert item(14,'Mukan', '11111', 'as@mail.xvz');
```

END;