# Reporting with SQL Part 3 Notes

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### 1 Counting Results

- Syntax 1: SELECT COUNT(column name) FROM table name;
  - Counts all non-null values
- Syntax 2: SELECT COUNT(\*) FROM table name;
  - counts all rows in a table
- Syntax 2: SELECT COUNT(DISTINCT column name) FROM table;
  - Counts all items with distinct value in a column

#### Example:

```
SELECT COUNT(DISTINCT category) FROM products;

SELECT COUNT(*) FROM customers ORDER BY id DESC LIMIT 1;
```

### 2 Exercise 1

• Solution included in exercise\_1.sql

# 3 Counting Groups of Rows

- Syntax: SELECT COUNT(column name) FROM table name GROUP BY column name with common value;
- is almost like using keyword distinct
  - SELECT COUNT(DISTINCT column name) FROM table;
- but, group by allows to add additional columns

#### Exxample:

```
SELECT category, COUNT(*) AS product_count FROM products GROUP BY category;
```

```
1 -- SELECT <column> FROM  GROUP BY <column>;

3 SELECT category, COUNT(*) AS product_count FROM products GROUP BY category;

Reset Run

category product_count
```

category	product_count
Books	20
Clothing	6
Electronics	3

# 4 Exercise 2

• Solution included in exercise\_2.sql