AAGREGATE

-- Total number of books

SELECT COUNT(\*) AS total\_books FROM Books;

-- Average price of books

SELECT AVG(Price) AS avg\_price FROM Books;

-- Maximum and minimum book price

SELECT MAX(Price) AS max\_price, MIN(Price) AS min\_price FROM Books;

-- Number of readers per first name

SELECT Firstname, COUNT(\*) AS reader\_count

FROM Readers

GROUP BY Firstname;

NUMERIC

-- Round book prices to nearest integer

SELECT Title, Price, ROUND(Price) AS rounded\_price FROM Books;

-- Display floor and ceiling values of prices

SELECT Title, FLOOR(Price) AS floor\_price, CEIL(Price) AS ceil\_price FROM Books;

-- Add 10% tax to each book price

SELECT Title, Price, Price \* 1.10 AS price\_with\_tax FROM Books;

DATE

ALTER TABLE Books ADD created\_on DATE DEFAULT (CURRENT\_DATE);

-- Books added this year

SELECT \* FROM Books WHERE YEAR(created\_on) = YEAR(CURDATE());

-- Days since book was added

SELECT Title, DATEDIFF(CURDATE(), created\_on) AS days\_since\_added FROM Books;

STRING

-- Uppercase and lowercase book titles

SELECT Title, UPPER(Title) AS uppercase\_title, LOWER(Title) AS lowercase\_title FROM Books;

-- Get domain from email

SELECT Email, SUBSTRING\_INDEX(Email, '@', -1) AS domain FROM Readers;

-- Concatenate full name

SELECT CONCAT(Firstname, ' ', lastName) AS full\_name FROM Readers;

-- Length of book title

SELECT Title, LENGTH(Title) AS title\_length FROM Books;

TYPE CONVERSION

**-- Convert price to string**

**SELECT Title, CAST(Price AS CHAR) AS price\_str FROM Books;**

**-- Convert user\_id to string**

**SELECT User\_ID, CAST(User\_ID AS CHAR) AS id\_str FROM Readers;**

**-- Convert string to number (if stored as string by mistake)**

**-- Assuming we have a wrongly stored price column:**

**-- SELECT Title, CAST(price\_string AS DECIMAL(10,2)) FROM Books;**