**Aggregate functions**

USE e\_store;

SHOW COLUMNS FROM e\_store.products;

SHOW COLUMNS FROM e\_store.reviews;

**SELECT** MIN(price) AS minimum\_product\_price

**FROM** e\_store.products;

**SELECT**

MIN(stars) **AS** lowest\_star,

product\_id

**FROM** e\_store.reviews

**WHERE** product\_id = 4;

USE e\_store;

SELECT MIN(stock) FROM e\_store.products;

SELECT MIN(stock) AS min\_stock FROM e\_store.products;

SELECT MIN(stock) AS min\_stock FROM e\_store.products

WHERE id > 3;

**SELECT** MAX(price) **AS** product\_max\_price

**FROM** e\_store.products;

SELECT MAX(created\_at) AS newest\_product FROM e\_store.products;

SELECT MIN(created\_at) AS oldest\_product FROM e\_store.products;

**SELECT**

MIN(price) **AS** product\_min\_price,

MAX(price) **AS** product\_max\_price

**FROM** e\_store.products

**WHERE** id <= 5;

SELECT MIN(STOCK) AS least\_stock, MAX(created\_at) AS newest\_product, MAX(price) AS product\_max\_price FROM e\_store.products;

**SELECT**

products.id, products.name, reviews.stars

**FROM** products

**JOIN** reviews

**ON** products.id = reviews.product\_id

**WHERE** products.id = 2;

USE e\_store;

SELECT products.id AS id, products.name AS product\_name, products.price AS price, reviews.stars AS stars FROM products

JOIN reviews

ON products.id = reviews.product\_id

WHERE products.id = 3 OR products.id = 4;

**SELECT** products.id, name, SUM(stars)

**FROM** products

**JOIN** reviews

**ON** products.id = reviews.product\_id

**WHERE** products.id = 2;

USE e\_store;

SELECT SUM(stock) AS total\_stock FROM products;

SELECT product\_id AS id, SUM(stars) AS total\_stars FROM reviews WHERE product\_id = 4;

**SELECT** products.id, name, COUNT(stars) AS count\_stars

**FROM** products

**JOIN** reviews

**ON** products.id = reviews.product\_id

**WHERE** product\_id = 2;

USE e\_store;

SELECT COUNT(stock) AS total\_product\_count FROM products;

SELECT product\_id AS id, COUNT(stars) AS stars\_fields\_count FROM reviews WHERE product\_id = 4;

SELECT products.id, name, SUM(stars)/**COUNT**(stars) AS stars\_average

FROM products

JOIN reviews

ON products.id = reviews.product\_id

WHERE product\_id = 2;

USE e\_store;

SELECT products.id, AVG(stars) AS avg\_rating

FROM products

JOIN reviews

ON products.id = reviews.product\_id

WHERE product\_id = 4;

**SELECT** products.id, name,

AVG(stars) **AS** stars\_avg

**FROM** products

**JOIN** reviews

**ON** products.id = reviews.product\_id

**WHERE** product\_id = 1;

**SELECT** products.id, name, stars

**FROM** products

**JOIN** reviews

**ON** products.id = reviews.product\_id;

**SELECT** products.id, name, AVG(stars)

**FROM** products

**JOIN** reviews

**ON** products.id = reviews.product\_id

**WHERE** reviews.product\_id = 2 **OR** reviews.product\_id = 4;

SELECT products.id, name,

AVG(stars) AS avg\_stars

**FROM** products

JOIN reviews

ON products.id = reviews.product\_id

WHERE reviews.product\_id = 2 **OR** reviews.product\_id = 4

GROUP BY products.id;

SELECT products.id, name,

AVG(stars) AS avg\_stars

**FROM** products

JOIN reviews

ON products.id = reviews.product\_id

WHERE reviews.product\_id = 2 **OR** reviews.product\_id = 4

GROUP BY products.name;

SELECT products.id, name,

AVG(stars) AS avg\_stars

**FROM** products

JOIN reviews

ON products.id = reviews.product\_id

GROUP BY products.id;

SELECT products.id, name,

AVG(stars) AS avg\_stars

**FROM** products

JOIN reviews

ON products.id = reviews.product\_id

GROUP BY products.id HAVING avg\_stars > 3;

**SELECT** products.id, products.name,

AVG(stars) **AS** avg\_stars

**FROM** products

**JOIN** reviews

**ON** products.id = reviews.product\_id

**WHERE** products.id < 6

**GROUP** **BY** products.name **HAVING** avg\_stars < 4;

USE e\_store;

SELECT products.id, products.name,

AVG(stars) AS avg\_stars

FROM products

JOIN reviews

ON products.id = reviews.product\_id

WHERE products.id < 4

GROUP BY products.name HAVING avg\_stars < 4

ORDER BY products.id ASC;

SELECT MIN(stock) AS min\_stock, MAX(stock) AS max\_stock FROM e\_store.products;

SELECT SUM(stock) AS total\_stock, COUNT(stock) AS total\_products FROM e\_store.products;

USE e\_store;

SELECT products.name, products.price, products.stock, AVG(stars) AS avg\_stars

FROM products

JOIN reviews

ON products.id = reviews.product\_id

GROUP BY products.name HAVING avg\_stars BETWEEN 3.5 AND 5

ORDER BY products.id ASC;