**Kontrolni zadatak 4/7**

**Grupa A**

Ime i Prezime \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**- Tabela proizvoda: Products(prod\_id, prod\_name, category\_id, price, stock)  
- Tabela kategorija: Categories(category\_id, category\_name)  
- Tabela narudžbina: Orders(order\_id, order\_date, customer\_id)  
- Tabela stavke narudžbine: OrderItems(order\_id, prod\_id, quantity, item\_price)  
- Tabela kupaca: Customers(customer\_id, city, country))**

**1) Kreiranje tabela (Oracle SQL DDL)**  
  
**-- Kategorije**  
CREATE TABLE Categories (

category\_id int PRIMARY KEY,

category\_name VARCHAR(100) NOT NULL

);  
**-- Proizvodi**  
CREATE TABLE Products (

prod\_id int PRIMARY KEY,

prod\_name VARCHAR(100) NOT NULL,

category\_id int REFERENCES Categories(category\_id),

price NUMERIC(10, 2) NOT NULL,

stock NUMERIC DEFAULT 0 NOT NULL

);  
**-- Kupci**  
CREATE TABLE Customers (

customer\_id INTEGER PRIMARY KEY,

city VARCHAR(100),

country VARCHAR(100)

);  
**-- Narudžbine**  
CREATE TABLE Orders (

order\_id INTEGER PRIMARY KEY,

order\_date DATE NOT NULL,

customer\_id INTEGER REFERENCES Customers(customer\_id)

);  
**-- Stavke narudžbine**  
CREATE TABLE OrderItems (

order\_id INTEGER REFERENCES Orders(order\_id),

prod\_id INTEGER REFERENCES Products(prod\_id),

quantity INTEGER NOT NULL,

item\_price NUMERIC(10, 2) NOT NULL,

PRIMARY KEY (order\_id, prod\_id)

);

**2) Skripta za unos podataka (Oracle, koristeći 10 proizvoda u 4 kategorije, 50 narudžbina)**  
**- Unos kategorija**

INSERT INTO Categories (category\_id,category\_name) VALUES (1,'Elektronika');

INSERT INTO Categories (category\_id,category\_name) VALUES (2,'Kuvanje');

INSERT INTO Categories (category\_id,category\_name) VALUES (3,'Igračke');

INSERT INTO Categories (category\_id,category\_name) VALUES (4,'Kancelarijski');

**- Unos proizvoda (10 proizvoda raspoređenih po 4 kategorije)**.

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (1, 'Laptop Pro 14"', 1, 1200.00, 20);

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (2, 'Smartphone X', 1, 799.99, 50);

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (3, 'Televizor 55"', 1, 699.99, 15);

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (4, 'Električni blender', 2, 89.99, 40);

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (5, 'Espresso aparat', 2, 129.99, 30);

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (6, 'Pisaći blokčić', 4, 3.50, 500);

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (7, 'Fen za kosu', 4, 24.99, 60);

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (8, 'Igračka lutka', 3, 14.99, 200);

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (9, 'Disk mobilni 1TB', 1, 59.99, 25);

INSERT INTO Products (prod\_id, prod\_name, category\_id, price, stock) VALUES (10, 'Set Olovaka', 4, 5.99, 300);

**- Unos kupaca**

INSERT INTO Customers (customer\_id, city, country) VALUES (1, 'Beograd', 'Srbija');

INSERT INTO Customers (customer\_id, city, country) VALUES (2, 'Novi Sad', 'Srbija');

INSERT INTO Customers (customer\_id, city, country) VALUES (3, 'Niš', 'Srbija');

INSERT INTO Customers (customer\_id, city, country) VALUES (4, 'Zagreb', 'Hrvatska');

INSERT INTO Customers (customer\_id, city, country) VALUES (5, 'Sarajevo', 'Bosna i Hercegovina');

**-- Narudžbine**

- Narudžbine:

INSERT INTO Orders (order\_id, order\_date, customer\_id) VALUES

(1, '2025-01-02', 1)

(2, '2025-01-03', 2)

(3, '2025-01-02', 3)

(4, '2025-01-03', 4)

(5, '2025-01-03', 5)

(6, '2025-03-02', 1)

(7, '2025-03-03', 2)

(8, '2025-03-02', 3)

(9, '2025-03-03', 4)

(10, '2025-03-03', 5)

- Stavke narudžbine:

- Narudžbine:

INSERT INTO Orders (order\_id, order\_date, customer\_id) VALUES

- Stavke narudžbine:

INSERT INTO OrderItems (order\_id, prod\_id, quantity, item\_price) VALUES

(1, 1, 1, 1200.00)

(1, 3, 4, 699.99)

(1, 5, 1, 129.99)

(1, 6, 2, 3.50)

(1, 9, 1, 59.99)

(2, 2, 1, 799.99)

INSERT INTO OrderItems (order\_id, prod\_id, quantity, item\_price) VALUES

(2, 3, 10, 699.99)

(2, 7, 10, 24.99)

(3, 1, 1, 1200.00)

(3, 3, 4, 699.99)

(3, 6, 2, 3.50)

(3, 8, 1, 14.99)

(3, 9, 1, 59.99)

INSERT INTO OrderItems (order\_id, prod\_id, quantity, item\_price) VALUES

(4, 8, 1, 14.99)

(4, 9, 10, 59.99)

(4, 10, 10, 5.99)

(5, 1, 1, 1200.00)

(5, 3, 4, 699.99)

(6, 5, 1, 129.99)

(6, 6, 2, 3.50)

INSERT INTO OrderItems (order\_id, prod\_id, quantity, item\_price) VALUES

(6, 9, 1, 59.99)

(7, 2, 1, 799.99)

(7, 3, 10, 699.99)

(7, 7, 10, 24.99)

(8, 1, 1, 1200.00)

(8, 3, 4, 699.99)

(8, 6, 2, 3.50)

INSERT INTO OrderItems (order\_id, prod\_id, quantity, item\_price) VALUES

(9, 8, 1, 14.99)

(9, 9, 1, 59.99)

(9, 10, 10, 5.99)

(10, 1, 1, 1200.00)

(10, 2, 1, 799.99)

(10, 3, 4, 699.99)

INSERT INTO OrderItems (order\_id, prod\_id, quantity, item\_price) VALUES

(10, 6, 2, 3.50)

(10, 8, 1, 14.99)

(10, 9, 1, 59.99)

(10, 10, 10, 5.99)

select \* from products

select \* from customers

select \* from categories

select \* from orders

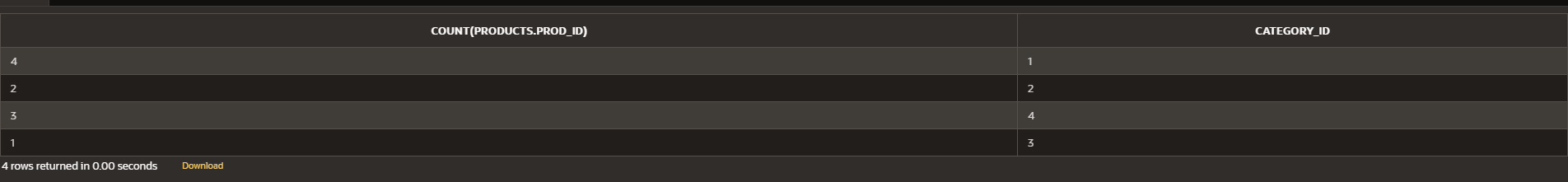
select \* from orderitems

**Zadatak A1:** Broj proizvoda po kategoriji  
- Opis: Prikažite broj proizvoda u svakoj kategoriji.

select count(Products.prod\_id),Categories.category\_id

from Products join Categories on (Products.category\_id=Categories.category\_id)

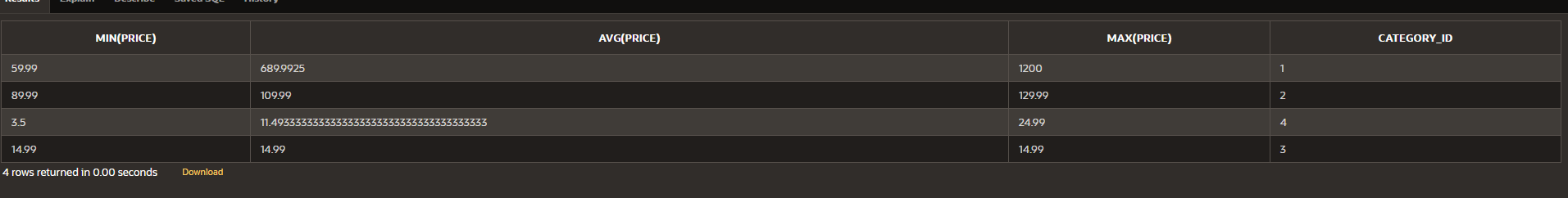
group by Categories.category\_id

  
  
**Zadatak A2**: Minimalna, prosecna i maksimalna cena po kategoriji

select min(price),avg(price),max(price),Categories.category\_id

from Products join Categories on (Products.category\_id=Categories.category\_id)

group by Categories.category\_id



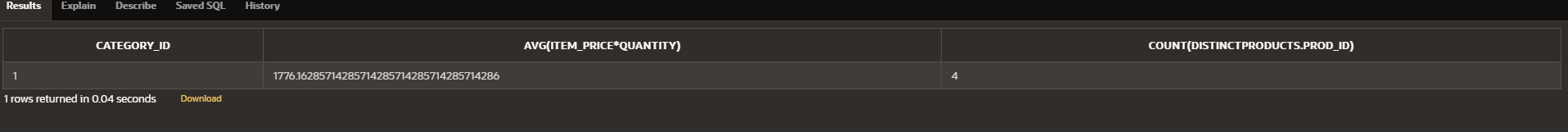
**Zadatak A3:** Prosečna prodajna vrednost po kategoriji samo za kategorije sa više od 3 proizvoda (HAVING)

select Categories.category\_id,avg(item\_price\*quantity),count(distinct Products.prod\_id)

from Products join Categories on (Products.category\_id=Categories.category\_id) join OrderItems on(OrderItems.prod\_id=Products.prod\_id)

group by Categories.category\_id

having count(distinct Products.prod\_id)>3



**Zadatak A4:** Spajanje sa podupitom – prosečna količina i cena po proizvodu sa filtriranjem “prodavnica” (store)

Opis: Ispišite proizvod zajedno sa prosečnom količinom po narudžbini i prosečnom

iznosu po jedinici, ali samo za proizvode iz kategorije koja ima više od 3 proizvoda.

**select Products.prod\_id,avg(OrderItems.quantity),avg(OrderItems.item\_price)**

**from Products join OrderItems on (OrderItems.prod\_id=Products.prod\_id)**

**where category\_id in**

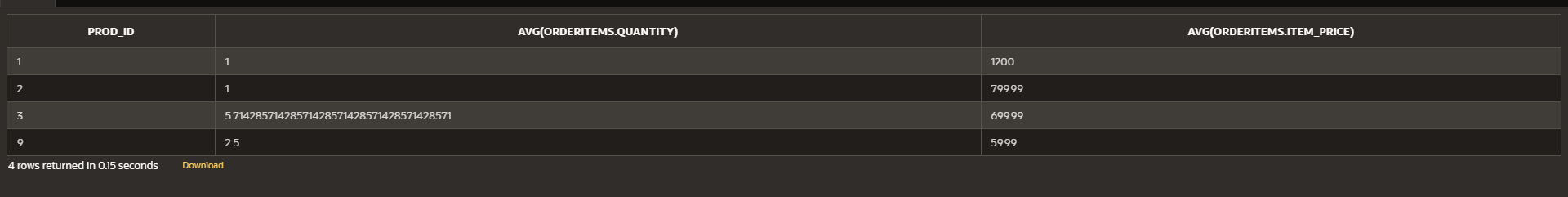
**(select category\_id**

**from Products**

**group by category\_id**

**having count(Products.prod\_id)>3 )**

**group by Products.prod\_id**



**Zadatak A5:** Vremenski trend ukupne prodaje po mesecu sa HAVING

Opis: Prikažite mesec i ukupnu prodaju (revenue) za svaki mesec, samo meseci gde ukupna prodaja

prelazi određeni iznos (npr. 1000).

select to\_char(order\_date,'MM'),sum(quantity\*item\_price)

from Orders join OrderItems on (OrderItems.order\_id=Orders.order\_id)

group by to\_char(order\_date,'MM')

having sum(quantity\*item\_price)>1000

