

Joining Tables

Task 1. Write a query to output all of the students with their teachers' last names in one table, sorted by students ID.

You are given the following **students** and **teachers** tables **students** (with their teachers ID's). The column with teachers' last names should be named "teacher" -- recall the **AS** keyword.:

Table №1 Students				Table №2 Teachers		
id	firstname	lastname	teacherid	id	firstname	lastname
1	Melanie	Cavazos	1	1	Kenneth	Rogers
2	Ted	Gray	2	2	Julia	Marrero
3	Sandra	Dennis	1	3	Mary	Foulds
4	John	Lockhart	3			
5	Micheal	Cartwright	2			
6	Henry	Suh	1			


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SELECT students.id, students.firstname, students.lastname,
teachers.lastname AS teacher
FROM students, teachers
WHERE students.teacherid=teachers.id
ORDER BY students.id;

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Task 2. Write a query to output the flight ID, full name of the pilot who is responsible for the flight, the country where the flight will land, and the duration of the flight (flight_id, fullname, landing_country, duration).

Order the table by flight ID.

Table №1 Pilots				Table №2 Flights		
pilot_id	fullname	nationality	flight_id	id	duration	landing_country
1	John Ritchson	USA	2	1	4h	Germany
2	Rayan Gomez	England	4	2	3h	USA
3	Omar Wallace	France	1	3	3h	Russia
4	Brooklyn Austin	USA	3	4	2h	Mexico

SELECT Pilots.flight_id, Pilots.fullname, Flights.landing_country, Flights.duration
FROM Flights **INNER JOIN** Pilots
ON Flights.id=Pilots.flight_id
ORDER BY flight_id ASC;

Task3. Write a query to output all products with their categories (productname-price-categoryname) in one table.

Table №1 Products				Table №2 Categories	
id	productname	price	categoryid	id	categoryname
1	Apple	800	1	1	Fruit
2	Potato	400	2	2	Vegetable
3	Orange	900	1	3	Juice
4	Tomato	450	2	4	Chocolate
5	OrangeJuice	250	3		
4	TomatoJuice	350	3		

SELECT Products.productname, Products.price, Categories.categoryname
FROM Products **INNER JOIN** Categories
ON Products.categoryid = Categories.id;

UNION

Task 4. Write a query to merge 'NorwayChess' and 'TataSteel' tables. Then order the merged table by 'Rating' in descending order and show the final table of participants.

Table №1 Norway Chess	player	country	birthyear	rating
	Magnus Carlsen	Norway	1990	2863
	Alireza Firouzja	Iran	2003	2728
	Levon Aronian	Armenia	1982	2767
	Fabiano Caruana	USA	1992	2828
	Jan-Krzysztof Duda	Poland	1998	2757
	Aryan Tari	Norway	1999	2633
Table №2 TataSteel	player	country	birthyear	rating
	Magnus Carlsen	Norway	1990	2863
	Wesley So	USA	1993	2770
	Van Foreest Jorden	Netherlands	1999	2671
	Fabiano Caruana	USA	1992	2828
	Yu Yangyi	China	1994	2709
SELECT * FROM NorwayChess UNION SELECT * FROM TataSteel ORDER BY rating DESC;				

Deleting Data

Task 5. You need to get rid of all the expired products. **Delete** from the 'products' table all of the items whose 'ExpireDate' is less than 1 and show the table without any expired items.

Table Products

id	name	category	price	expiredate
1	Bread	Bakery	160	1
2	Basturma	Meat Products	1450	0
3	Crabs	Fish and Seafood	3650	0
4	Coca-Cola	Juice and Beverages	420	180

SELECT * FROM products
WHERE expiredate !=0;