Database Assignment 2

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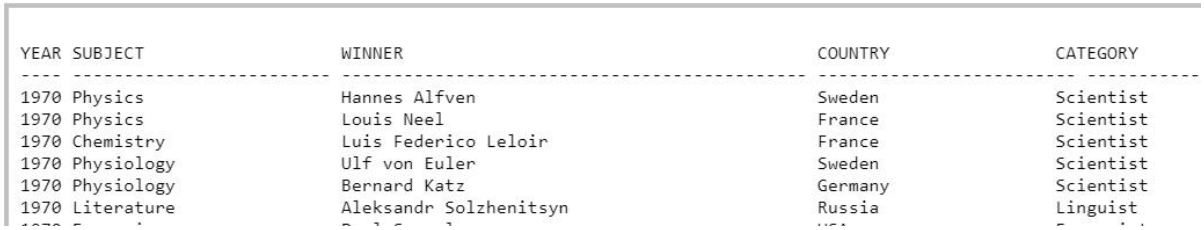
1. Write a SQL query to know the winner of the 1971 prize for Literature.



YEAR	SUBJECT	WINNER	COUNTRY	CATEGORY
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist
1970	Chemistry	Luis Federico Leloir	France	Scientist
1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist

Ans: >select WINNER from table_name where YEAR=1971 and SUBJECT="Literature";

2. For the above data write a SQL query to give the name of the 'Physics' winners since the year 1950.

Ans: >select winner from table_name where year>=1950 and subject="Physics";

- Write a SQL query to Show all the details (year, subject, winner, country) of the Chemistry prize winners between the year 1965 to 1975 inclusive.

Ans: >select year,subject,winner,country from table_name where subject="Chemistry" and year between 1965 and 1975;

- Write a SQL query to show all details of the Prime Ministerial winners after 1972 of Menachem Begin and Yitzhak Rabin.(NOTE : Use 'in' clause)

Ans: >SELECT * FROM table_name WHERE year >1972 AND winner IN ('Menachem Begin','Yitzhak Rabin');

- Write a SQL query to show all the winners of nobel prize in the year 1970 except the subject Physiology and Economics(NOTE: Can use ‘not in’).

Ans: >select *from table_name WHERE year=1970 and subject NOT IN('Physiology','Economics');

- Write a SQL query to show the winners of a 'Physiology' prize in an early year before 1971 together with winners of a 'Peace' prize in a later year on and after the 1974.(NOTE : can use ‘union’)

Ans: >SELECT * FROM table_name WHERE (subject ='Physiology' AND year<1971) UNION (SELECT * FROM table_name WHERE (subject ='Peace' AND year>=1974));

3. Write a SQL query to find all the products with a price between Rs.200 and Rs.600.

PRO_ID	PRO_NAME	PRO_PRICE	PRO_COM
101	Mother Board	3200	15
102	Key Board	450	16
103	ZIP drive	250	14
104	Speaker	550	16
105	Monitor	5000	11
106	DVD drive	900	12
107	CD drive	800	12
108	Printer	2600	13

Ans: >select *from products where PRO_PRICE between 200 and 600;

- Write a SQL query to calculate the average price of all products of the manufacturer which code is 16.

Ans: >select AVG(PRO_PRICE) from products where PRO_COM=16;

- Write a SQL query to find the pro_name as item name and pro_price as price in Rs.

Ans: >select pro_name as item_name,pro_price as price from products;

- Write a SQL query to display the name and price of all the items with a price is equal or more than Rs.250, and order it by price in descending order.

Ans: > select pro_name,pro_price from products where pro_price>=250 order by pro_price desc;

- Write a SQL query to find the name and price of the cheapest item(s).

Ans: >SELECT pro_name, pro_price FROM products WHERE pro_price = (SELECT MIN(pro_price) FROM products);

4. Write a query in SQL to find the last name of all employees, without duplicates.

EMP_IDNO	EMP_FNAME	EMP_LNAME	EMP_DEPT
127323	Michale	Robbin	57
526689	Carlos	Snares	63
843795	Enric	Dosio	57
328717	Jhon	Snares	63
444527	Joseph	Dosni	47
659831	Zanifer	Emily	47
847674	Kuleswar	Sitaraman	57
748681	Henrey	Gabriel	47
555935	Alex	Manuel	57

Ans: >select DISTINCT EMP_LNAME from employees;

- Write a query in SQL to display all the data of employees that work in the department 57.

Ans: >select *from employees where EMP_DEPT=57;

5. Consider the following relation:

   Emp(ename,company_name,salary,job,depno)

   Write the following sql queries:

   - Display the salary by increasing the salary column by 3000

Ans: >update Emp set salary=(salary+3000);

>select salary from Emp;

- Find the company name whose salary is lowest salary

Ans: >select company_name from Emp where salary=(select MIN(salary) from Emp);

- Find the total salary where company name is TCS.

Ans: > select SUM(salary) as total_salary from Emp where company_name=”TCS”;