

# Abhay Gajjar

## DBMS ASSESSMENT – 4

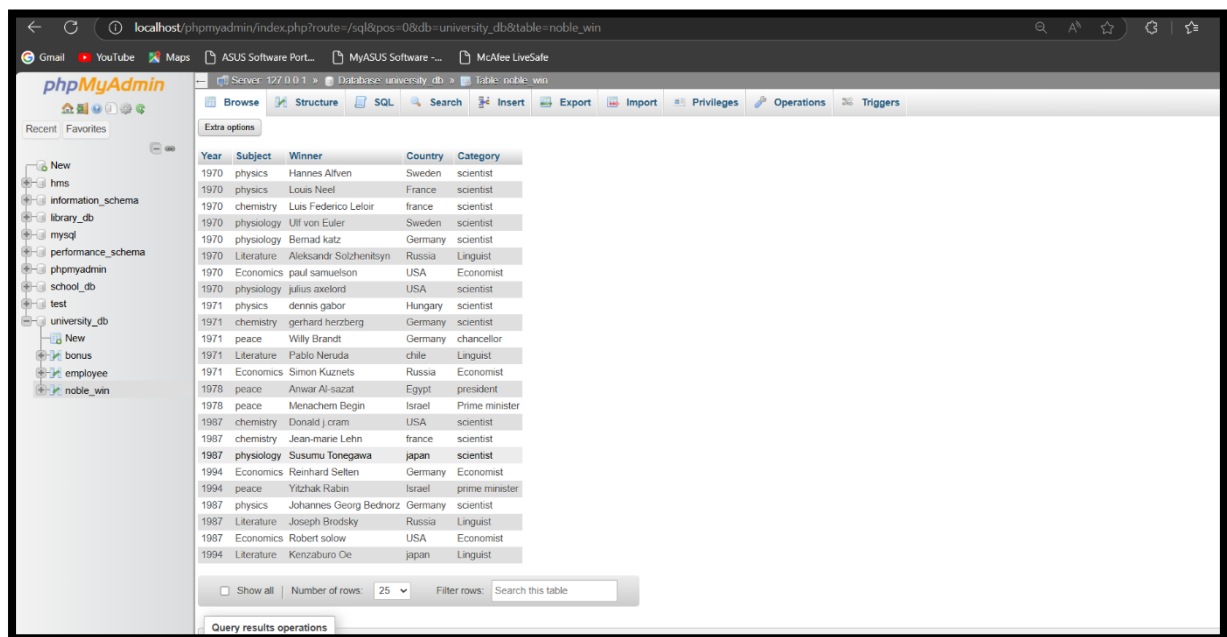
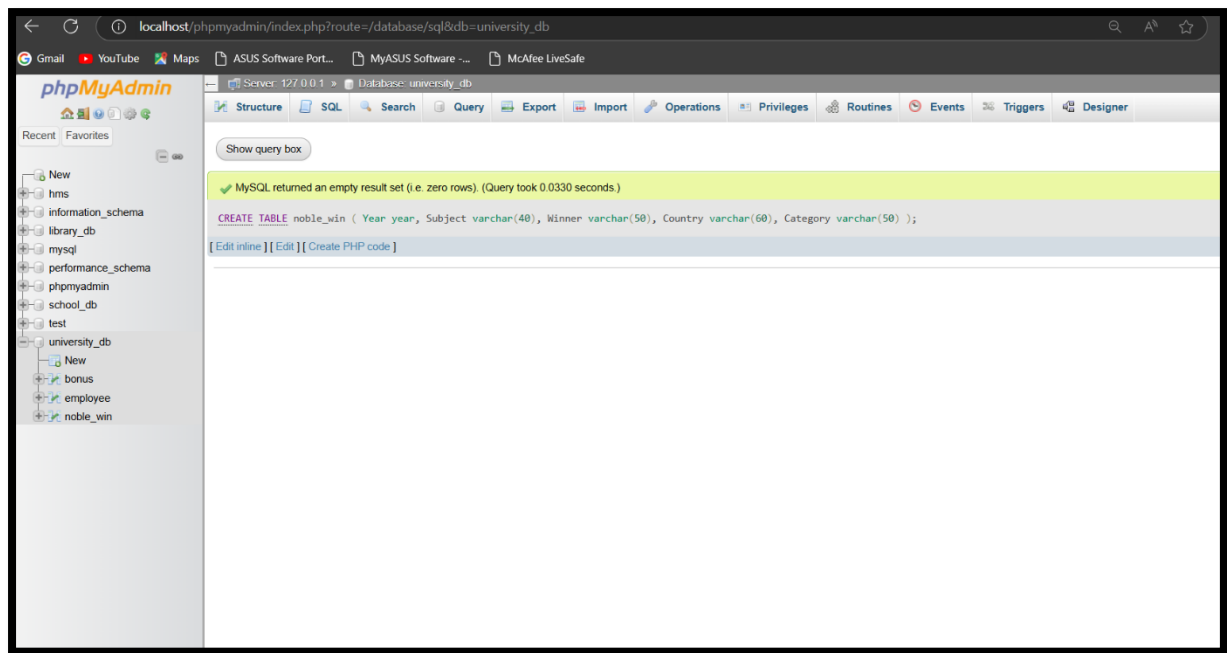
### ❖ SQL Queries :

1.) Over here the table Nobel\_win will contain attributes like year, subject, winner, country and category.

**Answer :**

```
CREATE TABLE noble_win ( Year year, Subject varchar(40), Winner varchar(50), Country varchar(60), Category varchar(50) );
```

**Output :**



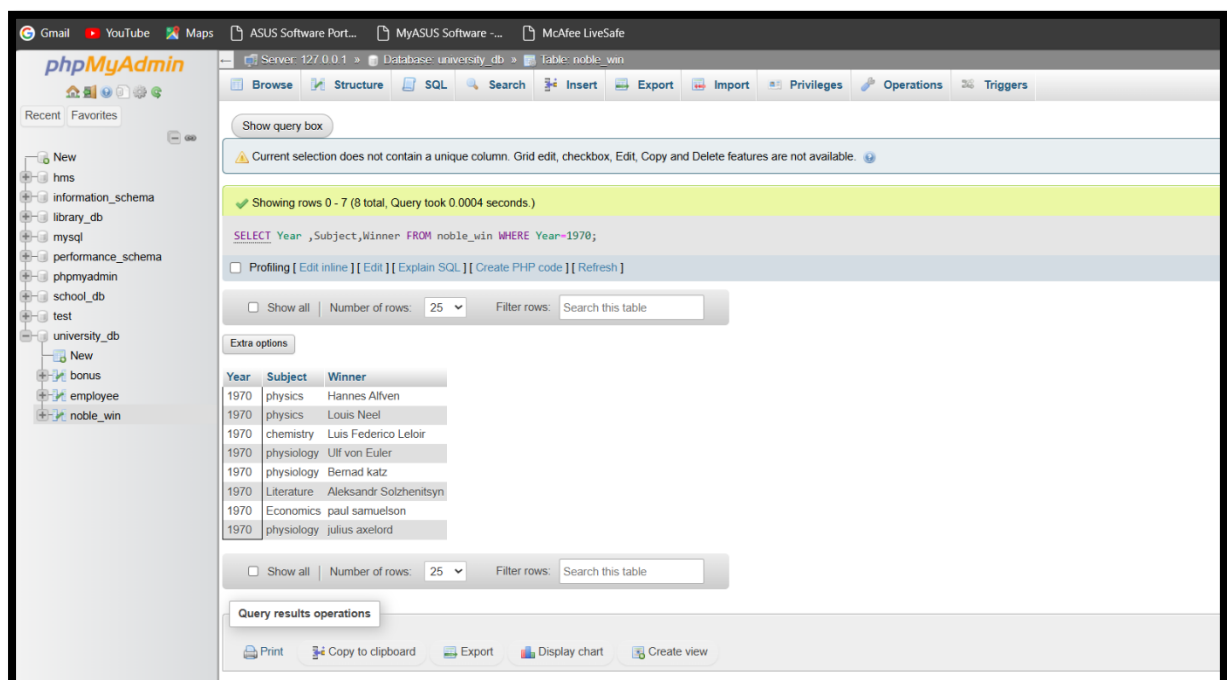
Now make sure to solve the following query :

2.) Write sql query to find the nobel prize winners of the year 1970. Return year,subject and winner .

**Answer :**

```
SELECT Year ,Subject,Winner  
FROM noble_win  
WHERE Year=1970;
```

**Output :**



The screenshot shows the phpMyAdmin interface with the following details:

- Database:** university\_db
- Table:** noble\_win
- SQL Query:** `SELECT Year ,Subject,Winner FROM noble_win WHERE Year=1970;`
- Results:** 8 rows (0 - 7) showing the following data:

Year	Subject	Winner
1970	physics	Hannes Alfven
1970	physics	Louis Neel
1970	chemistry	Luis Federico Leloir
1970	physiology	Ulf von Euler
1970	physiology	Bernad katz
1970	Literature	Aleksandr Solzhenitsyn
1970	Economics	paul samuelson
1970	physiology	julius axelord

Below the table, there are options for "Query results operations" including Print, Copy to clipboard, Export, Display chart, and Create view.

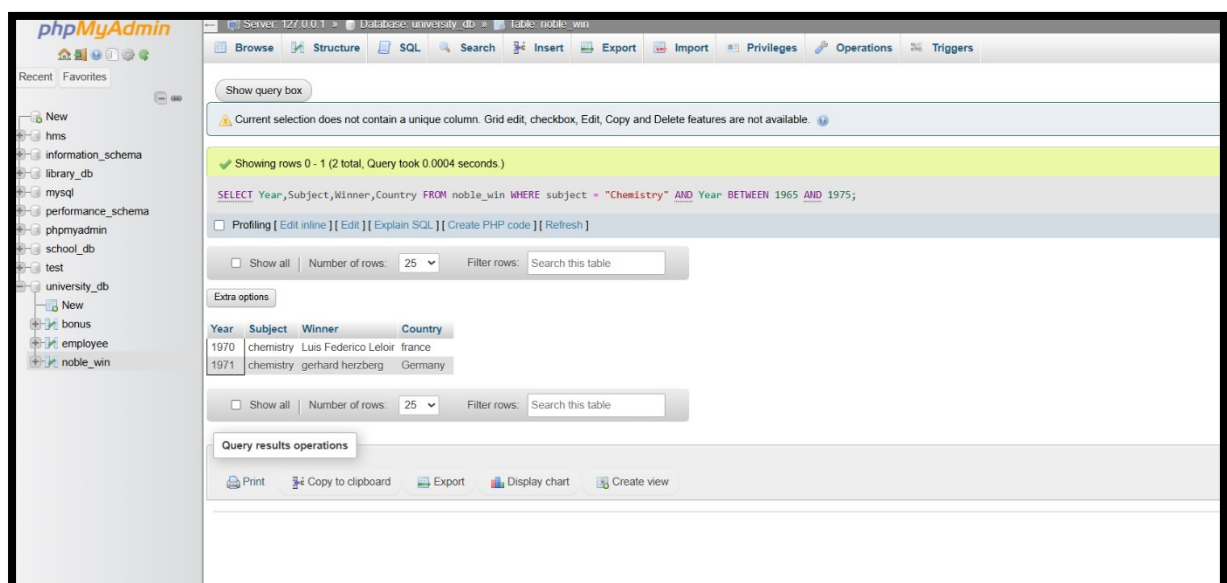
**3.) Write sql query to find the nobel prize winners in chemistry between the years 1965 and 1975. Begin and end values are included Return year, subject, winner and country .**

**Answer :**

```
SELECT Year,Subject,Winner,Country  
FROM noble_win
```

```
WHERE subject = "Chemistry" AND Year  
BETWEEN 1965 AND 1975;
```

**Output :**



The screenshot shows the phpMyAdmin interface with the following details:

- Database:** university\_db
- Table:** noble\_win
- SQL Query:** `SELECT Year,Subject,Winner,Country FROM noble_win WHERE subject = "Chemistry" AND Year BETWEEN 1965 AND 1975;`
- Results:** 2 rows returned.

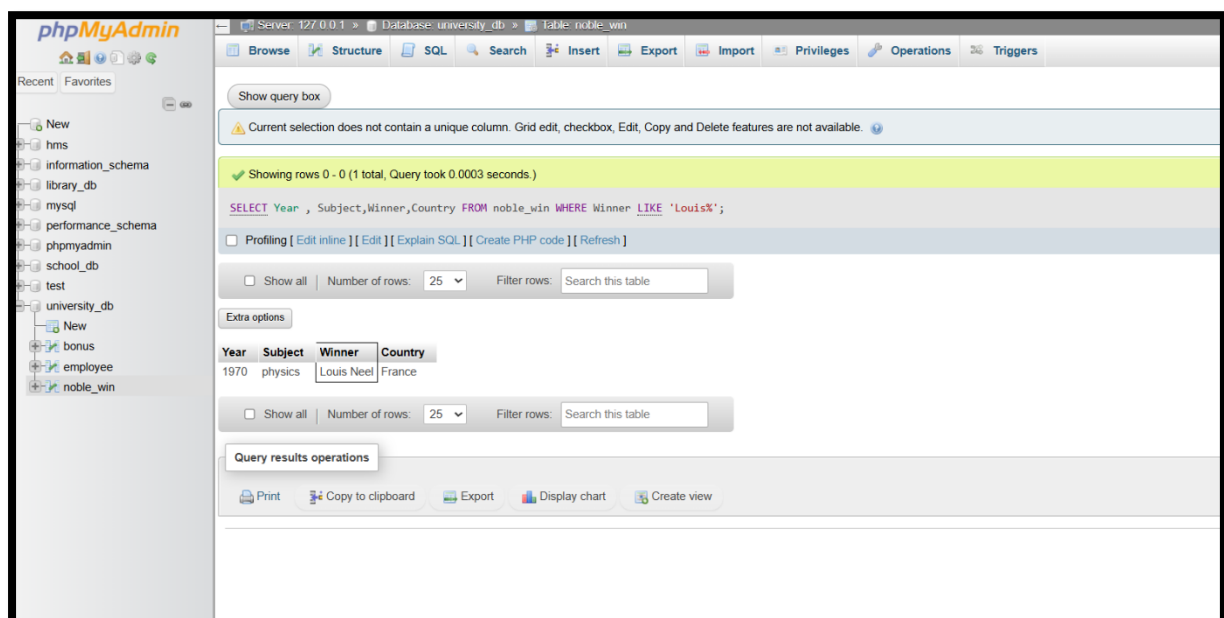
Year	Subject	Winner	Country
1970	chemistry	Luis Federico Leloir	france
1971	chemistry	gerhard herzberg	Germany

4.) Write sql query to retrieve the details of the winners whose first name matches with the string 'Louis'. Return year,subject,winner,country .

**Answer :**

```
SELECT Year , Subject,Winner,Country  
FROM noble_win  
WHERE Winner LIKE "Louis%";
```

**Output :**



The screenshot shows the phpMyAdmin interface with the following details:

- Database:** university\_db
- Table:** noble\_win
- SQL Query:** `SELECT Year , Subject,Winner,Country FROM noble_win WHERE Winner LIKE 'Louis%';`
- Results:** Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)
- Table Structure:** The table has columns: Year, Subject, Winner, and Country.
- Data Row:** 1970 | physics | Louis Neel | France

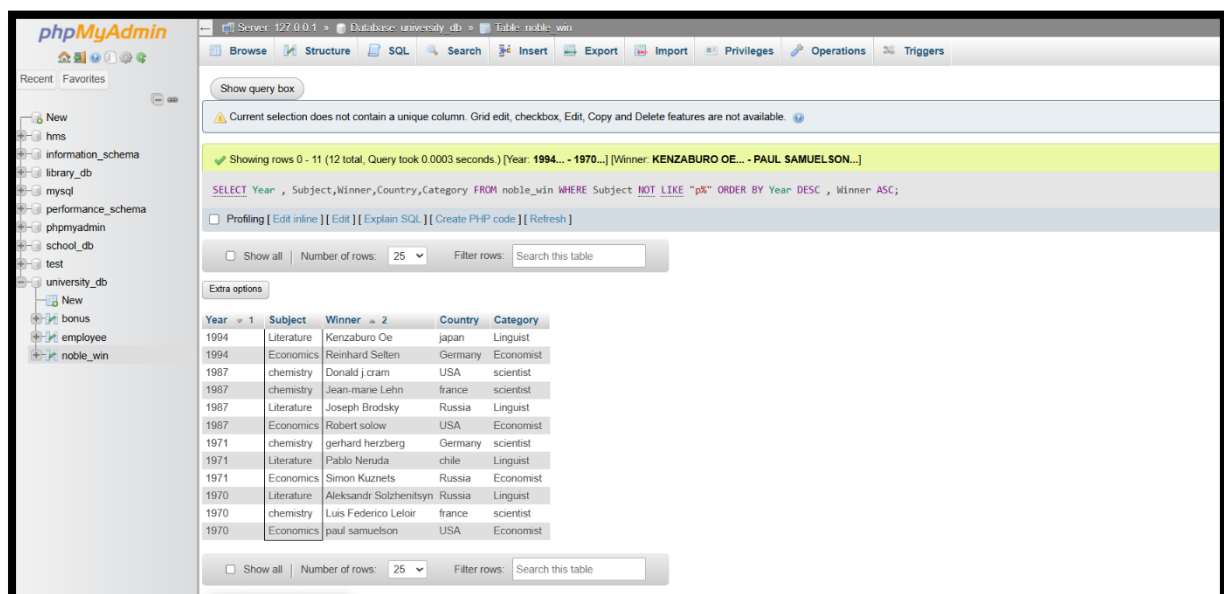
5.) Write sql query to find Nobel prize winners for the subject that does not begin with the letter 'P'. Order the result by year, descending and winner in ascending .

**Answer :**

```
SELECT Year ,  
Subject,Winner,Country,Category  
FROM noble_win
```

```
WHERE Subject NOT LIKE "p%" ORDER BY  
Year DESC , Winner ASC;
```

**Output :**



The screenshot shows the phpMyAdmin interface with the SQL query executed. The query is: `SELECT Year , Subject,Winner,Country,Category FROM noble_win WHERE Subject NOT LIKE "p%" ORDER BY Year DESC , Winner ASC;` The results are displayed in a table with 5 columns: Year, Subject, Winner, Country, and Category. The results are ordered by Year in descending order, and for each year, the winners are ordered by their name in ascending order.

Year	Subject	Winner	Country	Category
1994	Literature	Kenzaburo Oe	japan	Linguist
1994	Economics	Reinhard Sellen	Germany	Economist
1987	chemistry	Donald j cram	USA	scientist
1987	chemistry	Jean-marie Lehn	france	scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert solow	USA	Economist
1971	chemistry	gerhard herzberg	Germany	scientist
1971	Literature	Pablo Neruda	chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	chemistry	Luis Federico Leloir	france	scientist
1970	Economics	paul samuelson	USA	Economist

**6.) Write sql query to find the details of 1970 Nobel prize winners. Order the result by subject, ascending except for 'Chemistry' and 'Economics' which will come at the end of the result set. Return year, subject, winner , country and category.**

**Answer :**

```
SELECT Year, Subject, Winner, Country,  
Category
```

```
FROM noble_win
```

```
WHERE Year = 1970
```

```
ORDER BY CASE
```

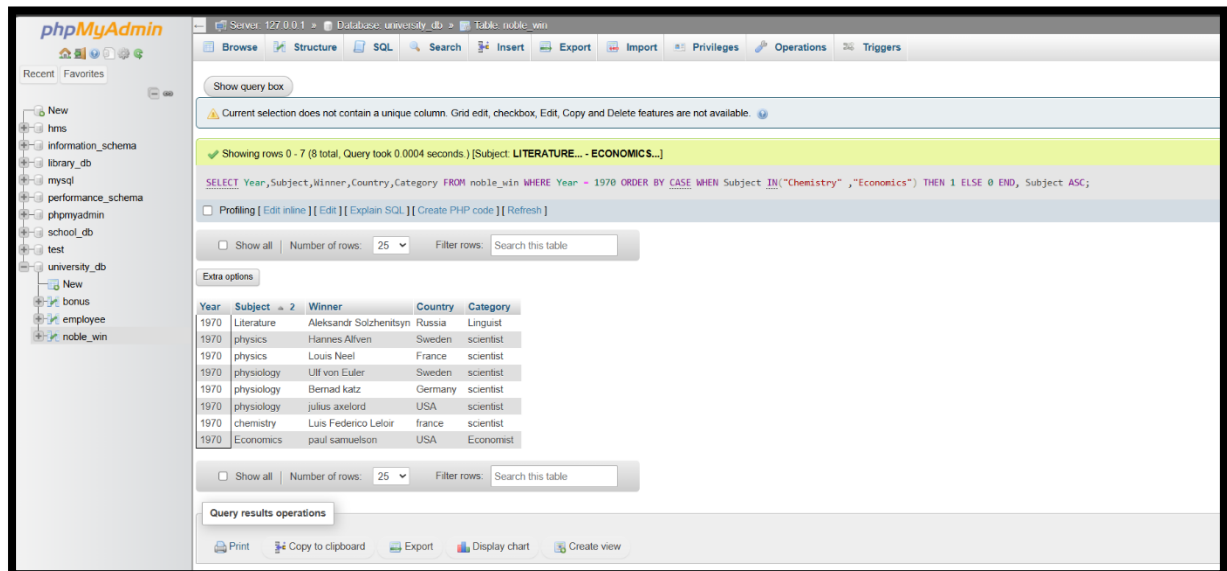
```
    WHEN Subject IN("Chemistry" ,"Econo  
mics")
```

```
    THEN 1
```

```
    ELSE 0
```

# END, Subject ASC;

## Output :



Server: 127.0.0.1 - Database: university\_db - Table: nobles\_win

Showing rows 0 - 7 (8 total, Query took 0.0004 seconds) [Subject: LITERATURE... - ECONOMICS...]

```
SELECT Year,Subject,Winner,Country,Category FROM nobles_win WHERE Year = 1970 ORDER BY CASE WHEN Subject IN("Chemistry","Economics") THEN 1 ELSE 0 END, Subject ASC;
```

Protfling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table

Year	Subject	Winner	Country	Category
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	physics	Hannes Alfvén	Sweden	scientist
1970	physics	Louis Néel	France	scientist
1970	physiology	Ulf von Euler	Sweden	scientist
1970	physiology	Bernad katz	Germany	scientist
1970	physiology	julius axelord	USA	scientist
1970	chemistry	Luis Federico Leloir	france	scientist
1970	Economics	paul samuelson	USA	Economist

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print | Copy to clipboard | Export | Display chart | Create view