ASSESMENT – DBMS (MySql)

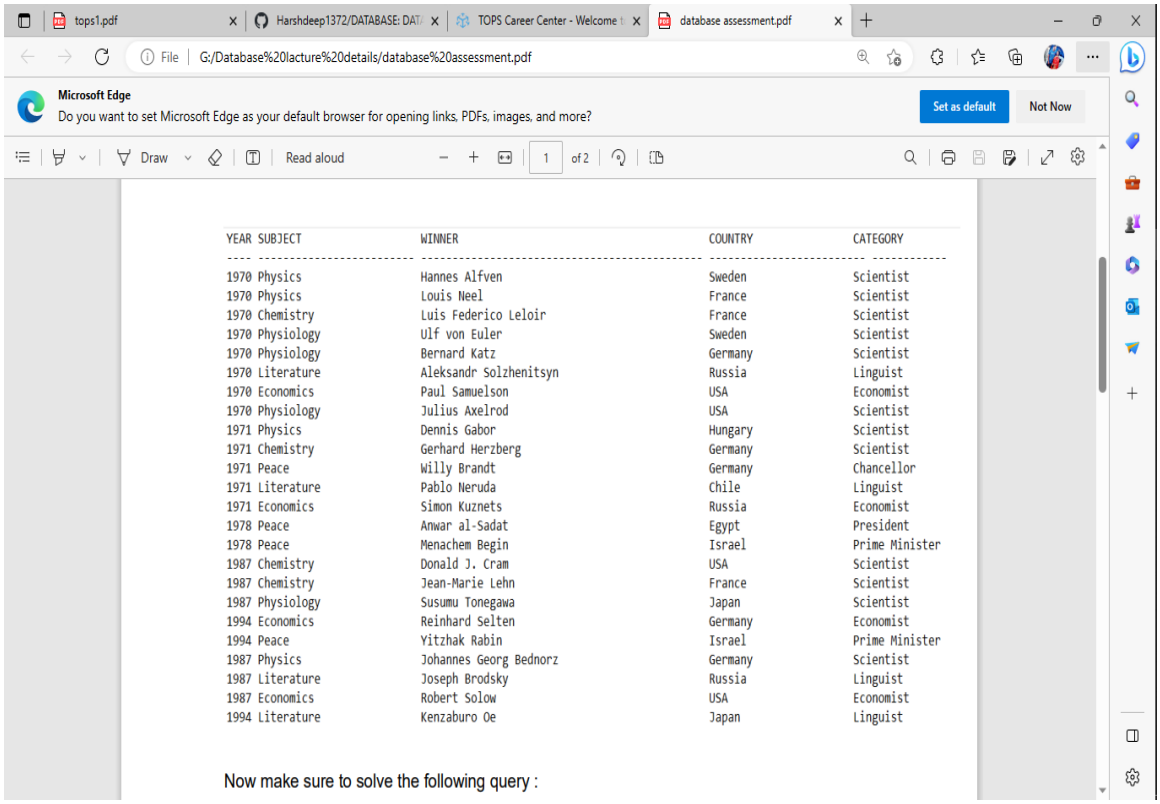
- **Write SQL query to solve the problem given below**

Consider a scenario in which you have to create a table called Nobel_win where you have given the information about the entity who has achieved nobel prize in a particular subject all over the world.

Over here the table Nobel_win will contain attributes like year, subject, winner, country and category

You need to use the sql commands to create the table given and to solve the problem given below.

Eg:-



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
1970	Economics	Paul Samuelson	USA	Economist
1970	Physiology	Julius Axelrod	USA	Scientist
1971	Physics	Dennis Gabor	Hungary	Scientist
1971	Chemistry	Gerhard Herzberg	Germany	Scientist
1971	Peace	Willy Brandt	Germany	Chancellor
1971	Literature	Pablo Neruda	Chile	Linguist
1971	Economics	Simon Kuznets	Russia	Economist
1978	Peace	Anwar al-Sadat	Egypt	President
1978	Peace	Menachem Begin	Israel	Prime Minister
1987	Chemistry	Donald J. Cram	USA	Scientist
1987	Chemistry	Jean-Marie Lehn	France	Scientist
1987	Physiology	Susumu Tonegawa	Japan	Scientist
1994	Economics	Reinhard Selten	Germany	Economist
1994	Peace	Yitzhak Rabin	Israel	Prime Minister
1987	Physics	Johannes Georg Bednorz	Germany	Scientist
1987	Literature	Joseph Brodsky	Russia	Linguist
1987	Economics	Robert Solow	USA	Economist
1994	Literature	Kenzaburo Oe	Japan	Linguist

Now make sure to solve the following query :

Make sure to make your clean and clear code

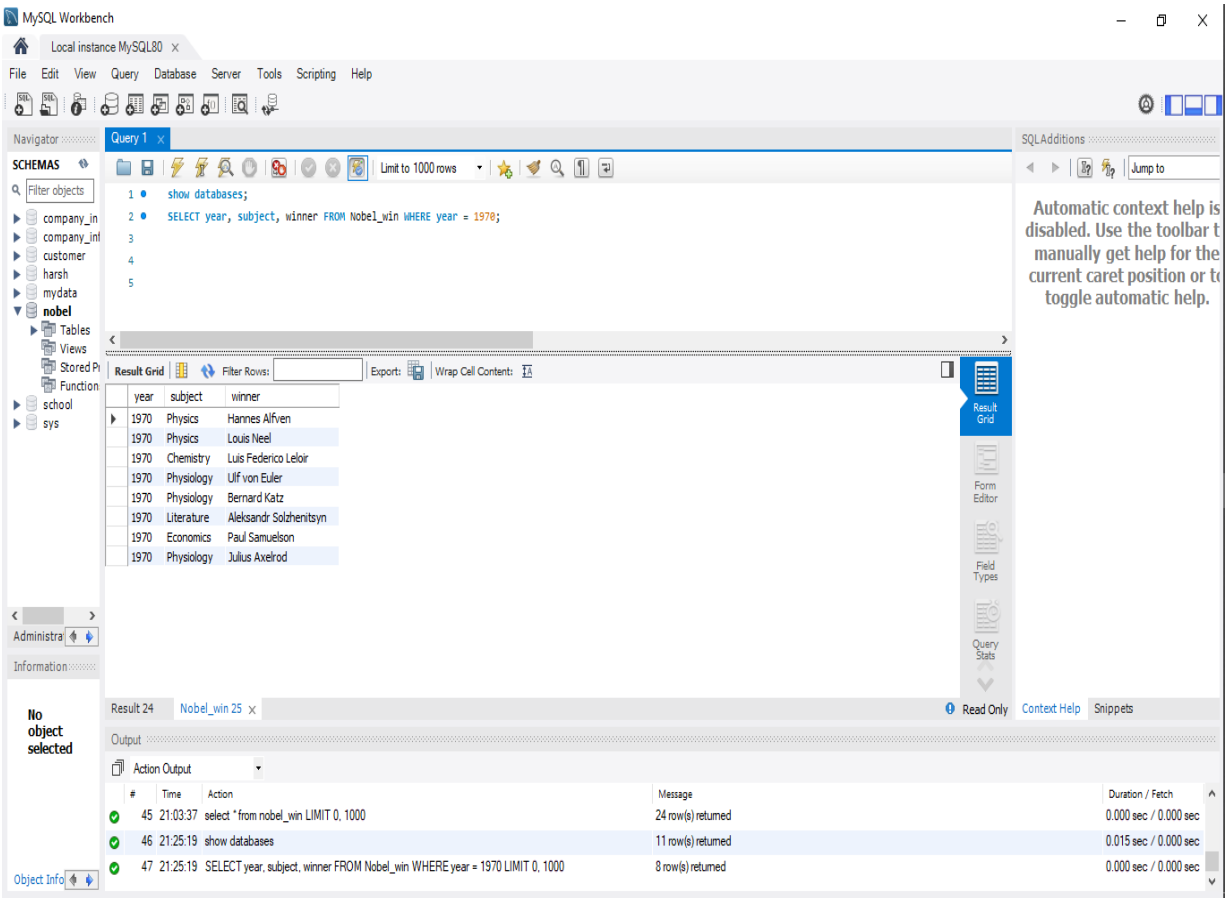
ANSWER→

Create Table :-

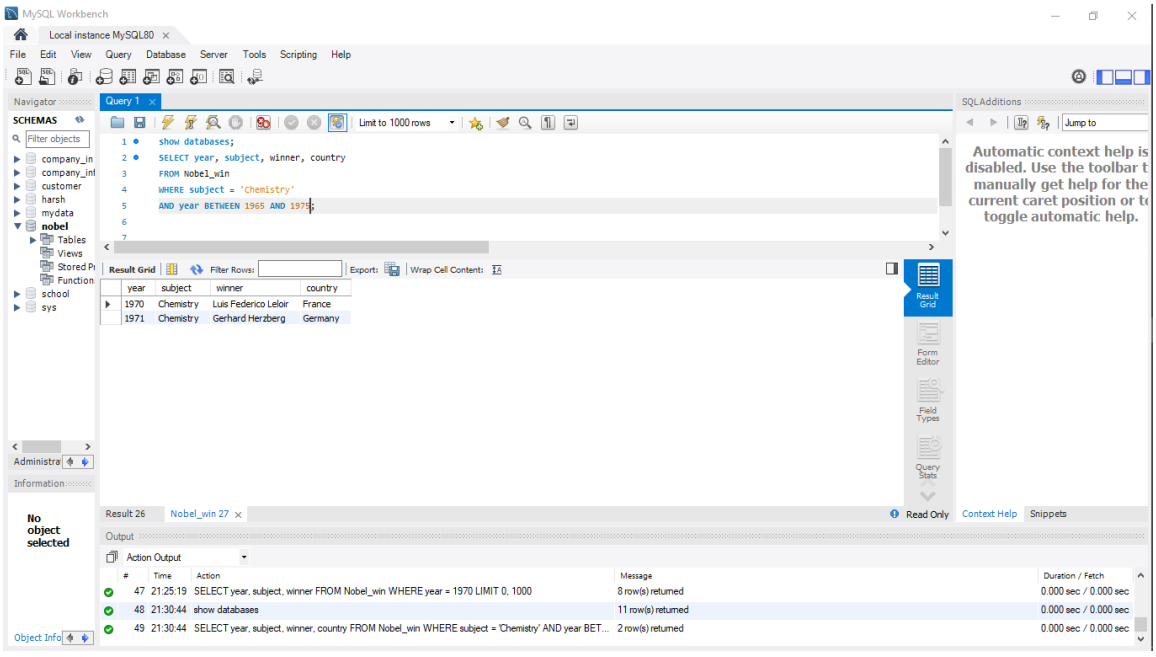
MySQL 8.0 Command Line Client

```
| sys                |
+--------------------+
11 rows in set (0.00 sec)

mysql> use nobel;
Database changed
mysql> show tables;
+----------------+
| Tables_in_nobel |
+----------------+
| nobel_win      |
+----------------+
1 row in set (0.00 sec)

mysql> select * from nobel_win;
+------+-----------+-----------------------+---------+---------------+
| 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      |
| 1970 | Economics | Paul Samuelson        | USA     | Economist     |
| 1970 | Physiology| Julius Axelrod        | USA     | Scientist     |
| 1971 | Physics   | Dennis Gabor          | Hungary | Scientist     |
| 1971 | Chemistry | Gerhard Herzberg      | Germany | Scientist     |
| 1971 | Peace     | Willy Brandt          | Germany | Chancellor    |
| 1971 | Literature| Pablo Neruda          | Chile   | Linguist      |
| 1971 | Economics | Silmon Kuznets        | Russia  | Economist     |
| 1978 | Peace     | Anwar al-sadat        | Egypt   | President     |
| 1978 | Peace     | Menachem Begin        | Israel  | Prime Minister|
| 1987 | Chemistry | Donald J. Cram        | USA     | Scientist     |
| 1987 | Chemistry | Jean-Marie Lehn       | France  | Scientist     |
| 1987 | Physiology| Susumu Tonegawa       | Japan   | Scientist     |
| 1994 | Economics | Reinhard Selten       | Germany | Economist     |
| 1994 | Peace     | Yitzhak Rabin         | Israel  | Prime Minister|
| 1987 | Physics   | Johannes Georg Bednorg| Germany | Scientist     |
| 1987 | Literature| Joseph Brodsky        | Russia  | Linguist      |
| 1987 | Economics | Robert Solow          | USA     | Economist     |
| 1994 | Literature| Kenzaburo Oe          | Japan   | Linguist      |
+------+-----------+-----------------------+---------+---------------+
24 rows in set (0.00 sec)

mysql>
```

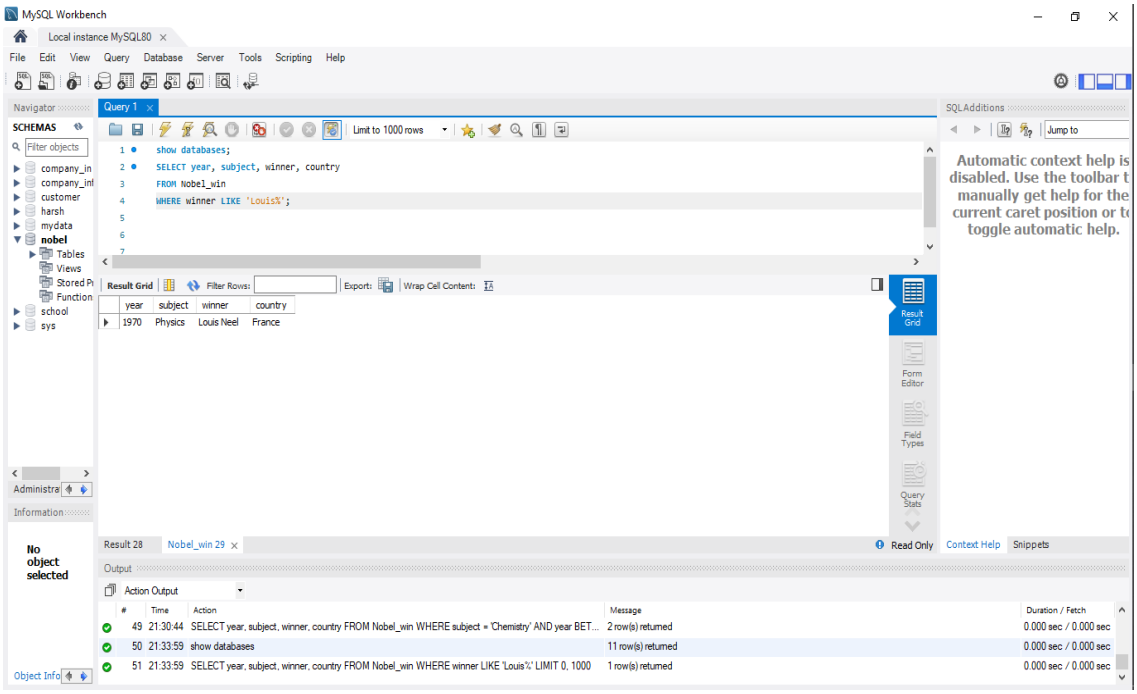
1. **Write sql query to find the nobel prize winners of the year 1970. Return year, subject and winner**



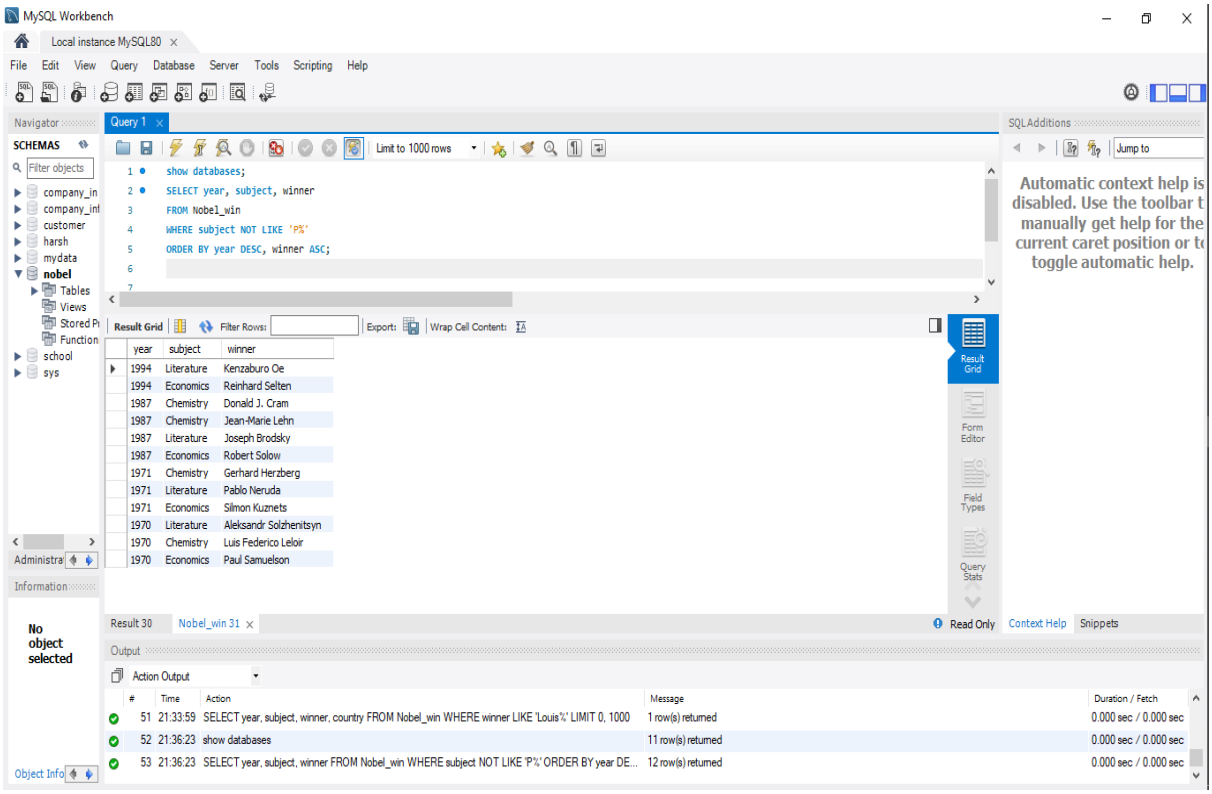
2. **Write sql query to find the nobel prize winners in chemistry between the years 1965 and 1975. Begin and end values are included Return year, subject, winner and country**



3. **Write sql query to retrieve the details of the winners whose first name matches with the string ‘Louis’. Return year, subject, winner, country**



4. **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**



5. **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.**