

## Module-4 assessment

### 1.create databases.

Create database nobel;

### 2.use the database.

Use nobel;

### 3.create table.

Create table nobel\_win(year int,subject varchar(100),winner varchar(100),country varchar(100),category varchar(100));

### 4.insert data.

Syntax: insert into nobel\_win(column1,column2,column3,...)

Value(value1,value2,value3,...);

#### :insert data into the table based

Insert into nobel\_win values

(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');

#### Select Table :

```
SELECT * FROM Nobel_win;
```

#### Questions:

**1: Nobel prize winners of the year 1970 Return year, subject and winner.**

```
SELECT year, subject, winner FROM Nobel_win WHERE year = 1970;
```

#### Output:

Year	subject	winner
1970	Physics	Hannes Alfven
1970	Physics	Louis Neel
1970	Chemistry	Luis Federico Leloir

1970	Physiology	Ulf von Euler
1970	Physiology	Bernard Katz
1970	Literature	Aleksandr Solzhenitsyn
1970	Economics	Paul Samuelson
1970	Physiology	Julius Axelrod

**2: Nobel prize winners in Chemistry between 1965 and 1975 Return year, subject, winner and country.**

```
SELECT year, subject, winner, country FROM Nobel_win WHERE subject =
'Chemistry' AND year BETWEEN 1965 AND 1975;
```

**Output:**

Year	subject	winner	country
1970	Chemistry	Luis Federico	Leloir France
1971	Chemistry	Gerhard Herzberg	Germany

**3: Winners whose first name matches 'Louis' Return year,subject,winner,country.**

```
SELECT year, subject, winner, country FROM Nobel_win WHERE winner LIKE
'Louis%';
```

**Output:**

Year	subject	winner	country
1970	Physics	Louis Neel	France

#### 4: Nobel winners for subjects not starting with 'P', ordered.

```
SELECT year, subject, winner FROM Nobel_win WHERE subject NOT LIKE 'P%'
ORDER BY year DESC, winner ASC;
```

#### Output:

Year	subject	winner
1994	Literature	Kenzaburo Oe
1994	Economics	Reinhard Selten
1987	Literature	Joseph Brodsky
1987	Chemistry	Donald J. Cram
1987	Chemistry	Jean-Marie Lehn

#### 5: 1970 winners sorted Chemistry & Economics last Return year, subject, winner , country and category.

```
SELECT year, subject, winner, country, category FROM Nobel_win WHERE year
= 1970 ORDER BY CASE WHEN subject IN ('Chemistry', 'Economics') THEN 2
ELSE 1 END, subject ASC;
```

#### Output:

Year	subject	winner	country	category
1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
1970	Physics	Hannes Alfven	Sweden	Scientist
1970	Physics	Louis Neel	France	Scientist

1970	Physiology	Ulf von Euler	Sweden	Scientist
1970	Physiology	Bernard Katz	Germany	Scientist
1970	Physiology	Julius Axelrod	USA	Scientist
1970	Chemistry	Luis Federico Leloir	France	Scientist
1970	Economics	Paul Samuelson	USA	Economist