**SE Introduction To DBMS**

1. Create the table :

CREATE TABLE Nobel\_win (

year INT,

subject VARCHAR(50),

winner VARCHAR(100),

country VARCHAR(50),

category VARCHAR(50)

);

1. Insert sample records (example data – you can add more as needed)

INSERT INTO Nobel\_win (year, subject, winner, country, category)

VALUES

(1970, 'Physics', 'Louis Neel', 'France', 'Scientist'),

(1970, 'Chemistry', 'Luis Federico Leloir', 'Argentina', 'Scientist'),

(1970, 'Economics', 'Paul Samuelson', 'USA', 'Economist'),

(1971, 'Literature', 'Pablo Neruda', 'Chile', 'Poet'),

(1968, 'Chemistry', 'Luis Alvarez', 'USA', 'Scientist'),

(1975, 'Chemistry', 'John Cornforth', 'Australia', 'Scientist'),

(1969, 'Medicine', 'Max Delbruck', 'Germany', 'Doctor');

3.Queries

Q1.Write sql query to find the nobel prize winners of the year 1970. Return year,subject and winner

Ans:

SELECT year, subject, winner

FROM Nobel\_win

WHERE year = 1970;

Q2. Write sql query to find the nobel prize winners in chemistry between the years 1965 and 1975. Begin and end values are includedReturn year, subject, winner and country

Ans:

SELECT year, subject, winner, country

FROM Nobel\_win

WHERE subject = 'Chemistry'

AND year BETWEEN 1965 AND 1975;

Q3. Write sql query to retrieve the details of the winners whose first name matches with the string ‘Louis’.Return year,subject,winner,country

Ans:

SELECT year, subject, winner, country

FROM Nobel\_win

WHERE winner LIKE 'Louis%';

Q4. 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 ascendingAns:

SELECT year, subject, winner

FROM Nobel\_win

WHERE subject NOT LIKE 'P%'

ORDER BY year DESC, winner ASC;

Q5. 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.

Ans:

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;