

SE_Assessment_M5

“NOBEL PRIZE WINNER”

o	Create Table OF 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	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
	<pre>CREATE TABLE Nobel_Win (YEAR_ int, SUBJECT_ VARCHAR(100), WINNER VARCHAR(100), COUNTRY VARCHAR(100), CATEGORY VARCHAR(100));</pre>				
	YEAR_	SUBJECT_	WINNER	COUNTRY	CATEGORY
	<pre>INSERT INTO Nobel_Win VALUES(1970, 'Physics','Hannes Alfven','Sweden','Scientist'); INSERT INTO Nobel_Win VALUES(1970, 'Physics','Louise Neel','France','Scientist'); INSERT INTO Nobel_Win VALUES(1970, 'Chemistry','Luis Federico Leloir','France','Scientist'); INSERT INTO Nobel_Win VALUES(1970, 'Physiology','Ulf von Euler','Sweden','Scientist'); INSERT INTO Nobel_Win VALUES(1970, 'Physiology','Bernard Katz','Germany','Scientist'); INSERT INTO Nobel_Win VALUES(1970, 'Literature','Aleksandr Solzhenitsyn','Russia','Linguist'); INSERT INTO Nobel_Win VALUES(1970, 'Economics','Paul Samuelson','USA','Economist'); INSERT INTO Nobel_Win VALUES(1970, 'Physiology','Julius Axelrod','USA','Scientist'); INSERT INTO Nobel_Win VALUES(1971, 'Physics','Dennis Gabor','Hungary','Scientist'); INSERT INTO Nobel_Win VALUES(1971, 'Chemistry','Gerhard Herzberg','Germany','Scientist'); INSERT INTO Nobel_Win VALUES(1971, 'Peace','Willy Brandt','Germany','Chancellor'); INSERT INTO Nobel_Win VALUES(1971, 'Literature','Pablo Neruda','Chile','Linguist'); INSERT INTO Nobel_Win VALUES(1971, 'Economics','Simon Kuznets','Russia','Economist'); INSERT INTO Nobel_Win VALUES(1978, 'Peace','Anwar al-Sadat','Egypt','President'); INSERT INTO Nobel_Win VALUES(1978, 'Peace','Menachem Begin','Israel','Prime Minister'); INSERT INTO Nobel_Win VALUES(1987, 'Chemistry','Donald J. Cram','USA','Scientist');</pre>				

SE_Assessment_M5

“NOBEL PRIZE WINNER”

	<pre>INSERT INTO Nobel_Win VALUES(1987, 'Chemistry', 'Jean-Marie Lehn', 'France', 'Scientist'); INSERT INTO Nobel_Win VALUES(1987, 'Physiology', 'Susumu Tonegawa', 'Japan', 'Scientist'); INSERT INTO Nobel_Win VALUES(1987, 'Physics', 'Johannes Georg Bednorz', 'Germany', 'Scientist'); INSERT INTO Nobel_Win VALUES(1994, 'Economics', 'Reinhard Selten', 'Germany', 'Economist'); INSERT INTO Nobel_Win VALUES(1994, 'Peace', 'Yitzhak Rabin', 'Israel', 'Prime Minister'); INSERT INTO Nobel_Win VALUES(1994, 'Literature', 'Joseph Brodsky', 'Russia', 'Linguist'); INSERT INTO Nobel_Win VALUES(1994, 'Literature', 'Kenzaburo Oe', 'Japan', 'Linguist'); SELECT * from Nobel_Win;</pre>																																																																																																																																																					
	<table><tr><th></th><th>YEAR_ ▾</th><th>SUBJECT_ ▾</th><th>WINNER ▾</th><th>COUNTRY ▾</th><th>CATEGORY ▾</th></tr><tr><td>1</td><td>1970</td><td>Physics</td><td>Hannes Alfven</td><td>Sweden</td><td>Scientist</td></tr><tr><td>2</td><td>1970</td><td>Physics</td><td>Louis Neel</td><td>France</td><td>Scientist</td></tr><tr><td>3</td><td>1970</td><td>Chemistry</td><td>Luis Federico Leloir</td><td>France</td><td>Scientist</td></tr><tr><td>4</td><td>1970</td><td>Physiology</td><td>Ulf von Euler</td><td>Sweden</td><td>Scientist</td></tr><tr><td>5</td><td>1970</td><td>Physiology</td><td>Bernard Katz</td><td>Germany</td><td>Scientist</td></tr><tr><td>6</td><td>1970</td><td>Literature</td><td>Aleksandr Solzhenitsyn</td><td>Russia</td><td>Linguist</td></tr><tr><td>7</td><td>1970</td><td>Economics</td><td>Paul Samuelson</td><td>USA</td><td>Economist</td></tr><tr><td>8</td><td>1970</td><td>Physiology</td><td>Julius Axelrod</td><td>USA</td><td>Scientist</td></tr><tr><td>9</td><td>1971</td><td>Physics</td><td>Dennis Gabor</td><td>Hungary</td><td>Scientist</td></tr><tr><td>10</td><td>1971</td><td>Chemistry</td><td>Gerhard Herzberg</td><td>Germany</td><td>Scientist</td></tr><tr><td>11</td><td>1971</td><td>Peace</td><td>Willy Brandt</td><td>Germany</td><td>Chancellor</td></tr><tr><td>12</td><td>1971</td><td>Literature</td><td>Pablo Neruda</td><td>Chile</td><td>Linguist</td></tr><tr><td>13</td><td>1971</td><td>Economics</td><td>Simon Kuznets</td><td>Russia</td><td>Economist</td></tr><tr><td>14</td><td>1978</td><td>Peace</td><td>Anwar al-Sadat</td><td>Egypt</td><td>President</td></tr><tr><td>15</td><td>1978</td><td>Peace</td><td>Menachem Begin</td><td>Israel</td><td>Prime Mini...</td></tr><tr><td>16</td><td>1987</td><td>Chemistry</td><td>Donald J. Cram</td><td>USA</td><td>Scientist</td></tr><tr><td>17</td><td>1987</td><td>Chemistry</td><td>Jean-Marie Lehn</td><td>France</td><td>Scientist</td></tr><tr><td>18</td><td>1987</td><td>Physiology</td><td>Susumu Tonegawa</td><td>Japan</td><td>Scientist</td></tr><tr><td>19</td><td>1987</td><td>Physics</td><td>Johannes Georg Bednorz</td><td>Germany</td><td>Scientist</td></tr><tr><td>20</td><td>1994</td><td>Economics</td><td>Reinhard Selten</td><td>Germany</td><td>Economist</td></tr><tr><td>21</td><td>1994</td><td>Peace</td><td>Yitzhak Rabin</td><td>Israel</td><td>Prime Mini...</td></tr><tr><td>22</td><td>1994</td><td>Literature</td><td>Joseph Brodsky</td><td>Russia</td><td>Linguist</td></tr><tr><td>23</td><td>1994</td><td>Literature</td><td>Kenzaburo Oe</td><td>Japan</td><td>Linguist</td></tr></table>		YEAR_ ▾	SUBJECT_ ▾	WINNER ▾	COUNTRY ▾	CATEGORY ▾	1	1970	Physics	Hannes Alfven	Sweden	Scientist	2	1970	Physics	Louis Neel	France	Scientist	3	1970	Chemistry	Luis Federico Leloir	France	Scientist	4	1970	Physiology	Ulf von Euler	Sweden	Scientist	5	1970	Physiology	Bernard Katz	Germany	Scientist	6	1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist	7	1970	Economics	Paul Samuelson	USA	Economist	8	1970	Physiology	Julius Axelrod	USA	Scientist	9	1971	Physics	Dennis Gabor	Hungary	Scientist	10	1971	Chemistry	Gerhard Herzberg	Germany	Scientist	11	1971	Peace	Willy Brandt	Germany	Chancellor	12	1971	Literature	Pablo Neruda	Chile	Linguist	13	1971	Economics	Simon Kuznets	Russia	Economist	14	1978	Peace	Anwar al-Sadat	Egypt	President	15	1978	Peace	Menachem Begin	Israel	Prime Mini...	16	1987	Chemistry	Donald J. Cram	USA	Scientist	17	1987	Chemistry	Jean-Marie Lehn	France	Scientist	18	1987	Physiology	Susumu Tonegawa	Japan	Scientist	19	1987	Physics	Johannes Georg Bednorz	Germany	Scientist	20	1994	Economics	Reinhard Selten	Germany	Economist	21	1994	Peace	Yitzhak Rabin	Israel	Prime Mini...	22	1994	Literature	Joseph Brodsky	Russia	Linguist	23	1994	Literature	Kenzaburo Oe	Japan	Linguist					
	YEAR_ ▾	SUBJECT_ ▾	WINNER ▾	COUNTRY ▾	CATEGORY ▾																																																																																																																																																	
1	1970	Physics	Hannes Alfven	Sweden	Scientist																																																																																																																																																	
2	1970	Physics	Louis Neel	France	Scientist																																																																																																																																																	
3	1970	Chemistry	Luis Federico Leloir	France	Scientist																																																																																																																																																	
4	1970	Physiology	Ulf von Euler	Sweden	Scientist																																																																																																																																																	
5	1970	Physiology	Bernard Katz	Germany	Scientist																																																																																																																																																	
6	1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist																																																																																																																																																	
7	1970	Economics	Paul Samuelson	USA	Economist																																																																																																																																																	
8	1970	Physiology	Julius Axelrod	USA	Scientist																																																																																																																																																	
9	1971	Physics	Dennis Gabor	Hungary	Scientist																																																																																																																																																	
10	1971	Chemistry	Gerhard Herzberg	Germany	Scientist																																																																																																																																																	
11	1971	Peace	Willy Brandt	Germany	Chancellor																																																																																																																																																	
12	1971	Literature	Pablo Neruda	Chile	Linguist																																																																																																																																																	
13	1971	Economics	Simon Kuznets	Russia	Economist																																																																																																																																																	
14	1978	Peace	Anwar al-Sadat	Egypt	President																																																																																																																																																	
15	1978	Peace	Menachem Begin	Israel	Prime Mini...																																																																																																																																																	
16	1987	Chemistry	Donald J. Cram	USA	Scientist																																																																																																																																																	
17	1987	Chemistry	Jean-Marie Lehn	France	Scientist																																																																																																																																																	
18	1987	Physiology	Susumu Tonegawa	Japan	Scientist																																																																																																																																																	
19	1987	Physics	Johannes Georg Bednorz	Germany	Scientist																																																																																																																																																	
20	1994	Economics	Reinhard Selten	Germany	Economist																																																																																																																																																	
21	1994	Peace	Yitzhak Rabin	Israel	Prime Mini...																																																																																																																																																	
22	1994	Literature	Joseph Brodsky	Russia	Linguist																																																																																																																																																	
23	1994	Literature	Kenzaburo Oe	Japan	Linguist																																																																																																																																																	
o	Write sql query to find the nobel prize winners of the year 1970. Return year,subject and winner																																																																																																																																																					
	<pre>SELECT YEAR SUBJECT WINNER FROM nobel_win WHERE year =1970;</pre>																																																																																																																																																					

SE_Assessment_M5

“NOBEL PRIZE WINNER”

			YEAR_ ▾	SUBJECT_ ▾	WINNER ▾	
	1	1970	Physics	Hannes Alfven		
	2	1970	Physics	Louise Neel		
	3	1970	Chemistry	Luis Federic...		
	4	1970	Physiology	Ulf von Euler		
	5	1970	Physiology	Bernard Katz		
	6	1970	Literature	Aleksandr So...		
	7	1970	Economics	Paul Samuels...		
	8	1970	Physiology	Julius Axelr...		
o	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					
	<pre>SELECT YEAR_, SUBJECT_, WINNER, COUNTRY FROM Nobel_Win WHERE SUBJECT_='chemistry' AND (YEAR_>1965 AND YEAR_<1975);</pre>					
			YEAR_ ▾	SUBJECT_ ▾	WINNER ▾	COUNTRY ▾
	1	1970	Chemistry	Luis Federico Leloir	France	
	2	1971	Chemistry	Gerhard Herzberg	Germany	
o	Write sql query to retrieve the details of the winners whose first name matches with the string 'Louis'. Return year,subject,winner,country					
	<pre>SELECT YEAR_, SUBJECT_, WINNER,COUNTRY FROM Nobel_Win WHERE WINNER LIKE 'Louis%';</pre>					
			YEAR_ ▾	SUBJECT_ ▾	WINNER ▾	COUNTRY ▾
	1	1970	Physics	Louis Neel	France	
o	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					
	<pre>SELECT YEAR, SUBJECT_,WINNER FROM Nobel_Win WHERE SUBJECT_ NOT LIKE 'P%' ORDER BY WINNER, Year_ DESC ;</pre>					

SE_Assessment_M5

“NOBEL PRIZE WINNER”

			YEAR_ ▾	SUBJECT_ ▾	WINNER ▾	
	1	1970	Literature	Aleksandr Solzhenitsyn		
	2	1987	Chemistry	Donald J. Cram		
	3	1971	Chemistry	Gerhard Herzberg		
	4	1987	Chemistry	Jean-Marie Lehn		
	5	1994	Literature	Joseph Brodsky		
	6	1994	Literature	Kenzaburo Oe		
	7	1970	Chemistry	Luis Federico Leloir		
	8	1971	Literature	Pablo Neruda		
	9	1970	Economics	Paul Samuelson		
	10	1994	Economics	Reinhard Selten		
	11	1971	Economics	Simon Kuznets		
o	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.					
	<pre>SELECT * FROM Nobel_Win WHERE YEAR_=1970 AND SUBJECT_ NOT IN ('Chemistry', 'Economics') ORDER BY SUBJECT ;</pre>					
		YEAR_ ▾	SUBJECT_ ▾	WINNER ▾	COUNTRY ▾	CATEGORY ▾
	1	1970	Literature	Aleksandr Solzhenitsyn	Russia	Linguist
	2	1970	Physics	Hannes Alfven	Sweden	Scientist
	3	1970	Physics	Louis Neel	France	Scientist
	4	1970	Physiology	Ulf von Euler	Sweden	Scientist
	5	1970	Physiology	Bernard Katz	Germany	Scientist
	6	1970	Physiology	Julius Axelrod	USA	Scientist