SQL> @z:lab2.sql

SQL> REM Display the nobel laureate(s) who born after 1Jul1960.

SQL> SELECT \*

2 FROM nobel

3 WHERE dob>'01-jul-1960';

LAUREATE\_ID NAME G CAT FIELD YEAR\_AWARD AFF\_ROLE DOB COUNTRY

----------------- --------------------- - -------------------------- -------------------- ----------------------------- ------------ ---- ---------------

111 Eric A Cornell m Phy Atomic physics 2001 University of Colorado 19-DEC-61 USA

124 Carol W Greider f Med Enzymes 2009 Johns Hopkins University 15-APR-61 USA

125 Barack H Obama m Pea World organizing 2009 President of USA 04-AUG-61 USA

SQL>

SQL> REM Display the Indian laureate (name, category, field, country, year awarded) who was awarded in the Chemistry category.

SQL> SELECT name,category,field,country,year\_award

2 FROM nobel

3 WHERE category='Che' and country='India';

NAME CAT FIELD COUNTRY YEAR\_AWARD

---------------------------------- ----- ----------------- ------------ -------------------

Venkatraman Ramakrishnan Che Biochemistry India 2009

SQL>

SQL> REM Display the laureates (name, category,field and year of award) who was awarded between 2000 and 2005 for the Physics or Chemistry category.

SQL>

SQL> SELECT name,category,field,year\_award

2 FROM nobel

3 WHERE year\_award between 2000 and 2005 and (category='Phy' or category='Che');

NAME CAT FIELD YEAR\_AWARD

----------------------------------------- ----------------- ------------------

Eric A Cornell Phy Atomic physics 2001

Carl E Wieman Phy Atomic physics 2001

Ryoji Noyori Che Organic Chemistry 2001

K Barry Sharpless Che Organic Chemistry 2001

SQL>

SQL> REM Display the laureates name with their age at the time of award for the Peace category.

SQL>

SQL> SELECT name, year\_award-EXTRACT (YEAR FROM (dob)) as age

2 FROM nobel

3 WHERE category='Pea';

NAME AGE

-------------------------- ----------

John Hume 61

David Trimble 54

Kofi Annan 63

Barack H Obama 48

SQL>

SQL> REM Display the laureates (name,category,aff\_role,country) whose name starts with A or ends with a, but not from Isreal.

SQL>

SQL> SELECT name,category,aff\_role,country

2 FROM nobel

3 WHERE country not in('Isreal') and (name LIKE 'A%' or name LIKE '%a') ;

NAME CAT AFF\_ROLE COUNTRY

----------------------------- ---------------- ----------------

Amartya Sen Eco Trinity College India

Barack H Obama Pea President of USA USA

SQL>

SQL> REM Display the name, gender, affiliation, dob and country of laureates who was born in 1950's. Label the dob column as Born 1950.

SQL>

SQL> SELECT name,gender,aff\_role,dob as Born\_1950 ,country

2 FROM nobel

3 WHERE EXTRACT (YEAR FROM (dob)) between 1950 and 1960;

NAME G AFF\_ROLE BORN\_1950 COUNTRY

-------------------------- - --------------------------- --------- ----------

Robert B. Laughlin m Stanford University 01-NOV-50 USA

Carl E Wieman m University of Colorado 26-MAR-51 USA

Venkatraman Ramakrishnan m MRC Laboratory 19-AUG-52 India

Herta Muller f 17-AUG-53 Romania

SQL>

SQL> REM Display the laureates (name,gender,category,aff\_role,country) whose name starts with A, D or H.

SQL> REM Remove the laureate if he/she do not have any affiliation. Sort the results in ascending order of name.

SQL>

SQL> SELECT name,gender,category,aff\_role,country

2 FROM nobel

3 WHERE (name LIKE 'A%' or name LIKE 'D%' or name LIKE 'H%' ) and aff\_role not in('null')

4 ORDER BY name ASC;

NAME G CAT AFF\_ROLE COUNTRY

-------------------------- - --- ------------------------------- ----------

Ada E Yonath f Che Weizmann Institute of Science Isreal

Amartya Sen m Eco Trinity College India

Daniel C. Tsui m Phy Princeton University China

David Trimble m Pea Ulster Unionist party Leader Ireland

Horst L Stormer m Phy Columbia University Germany

SQL>

SQL> REM Display the university name(s) that has to its credit by having at least 2 nobel laureate with them.

SQL>

SQL> SELECT aff\_role, COUNT(name) as count

2 FROM nobel

3 WHERE aff\_role LIKE 'University%' or aff\_role LIKE '%University'

4 GROUP BY aff\_role

5 HAVING COUNT(name)>=2;

AFF\_ROLE COUNT

------------------------------ ----------

University of California 5

University of Colorado 2

SQL>

SQL> REM List the date of birth of youngest and eldest laureates by countrywise.

SQL> REM Label the column as Younger, Elder respectively. Include only the country having more than one laureate.

SQL> REM Sort the output in alphabetical order of country.

SQL>

SQL> SELECT country, COUNT(name) count, min(dob) Younger,max(dob) Elder

2 FROM nobel

3 GROUP BY country

4 HAVING COUNT(name)>1

5 ORDER BY country ASC;

COUNTRY COUNT YOUNGER ELDER

---------- ---------- --------- ---------

China 2 04-NOV-33 28-FEB-39

India 2 03-NOV-33 19-AUG-52

Ireland 2 18-JAN-37 15-OCT-44

UK 2 31-OCT-25 17-AUG-32

USA 11 10-MAY-30 19-DEC-61

SQL>

SQL> REM Show the details (year award,category,field) where the award is shared among the laureates in the same category and field. Exclude the laureates from USA.

SQL>

SQL> SELECT year\_award,category,field

2 FROM nobel

3 WHERE country not in('USA')

4 GROUP BY year\_award,category,field

5 having count(category)>1

6 order by year\_award;

YEAR\_AWARD CAT FIELD

---------- --- -------------------------

1998 Che Theoretical Chemistry

1998 Pea Negotiation

1998 Phy Condensed matter

2009 Che Biochemistry

SQL>

SQL> REM 11.Mark an intermediate point in the transaction (savepoint).

SQL> SAVEPOINT spt;

Savepoint created.

SQL>

SQL> SELECT \*

2 FROM nobel;

LAUREATE\_ID NAME G CAT FIELD YEAR\_AWARD AFF\_ROLE DOB COUNTRY

----------- ------------------------------ - --- ------------------------- ---------- ------------------------------ --------- ----------

100 Robert B. Laughlin m Phy Condensed matter 1998 Stanford University 01-NOV-50 USA

101 Horst L Stormer m Phy Condensed matter 1998 Columbia University 06-APR-49 Germany

102 Daniel C. Tsui m Phy Condensed matter 1998 Princeton University 28-FEB-39 China

103 Walter Kohn m Che Theoretical Chemistry 1998 University of California 09-MAR-23 Austria

104 John Pople m Che Theoretical Chemistry 1998 North Western University 31-OCT-25 UK

106 John Hume m Pea Negotiation 1998 Labour party Leader 18-JAN-37 Ireland

107 David Trimble m Pea Negotiation 1998 Ulster Unionist party Leader 15-OCT-44 Ireland

108 Louis J Ignaroo m Med Cardiovascular system 1998 University of California 31-MAY-41 USA

109 Amartya Sen m Eco Welfare Economics 1998 Trinity College 03-NOV-33 India

110 Jose Saramago m Lit Portuguese 1998 16-NOV-22 Portugal

111 Eric A Cornell m Phy Atomic physics 2001 University of Colorado 19-DEC-61 USA

LAUREATE\_ID NAME G CAT FIELD YEAR\_AWARD AFF\_ROLE DOB COUNTRY

----------- ------------------------------ - --- ------------------------- ---------- ------------------------------ --------- ----------

112 Carl E Wieman m Phy Atomic physics 2001 University of Colorado 26-MAR-51 USA

113 Ryoji Noyori m Che Organic Chemistry 2001 Nagoya University 03-SEP-38 Japan

114 K Barry Sharpless m Che Organic Chemistry 2001 Scripps Research Institute 28-APR-41 USA

115 Kofi Annan m Pea World organizing 2001 UN General 08-APR-38 Ghana

116 Joerge A Akeriof m Eco Economic of Information 2001 University of California 17-JUN-40 USA

117 V S Naipaul m Lit English 2001 17-AUG-32 UK

118 Charles A Kao m Phy Fiber technology 2009 University of Hongkong 04-NOV-33 China

119 Willard S Boyle m Phy Semiconductor technology 2009 Bell Laboratories 19-AUG-24 Canada

120 George E Smith m Phy Semiconductor technology 2009 Bell Laboratories 10-MAY-30 USA

121 Venkatraman Ramakrishnan m Che Biochemistry 2009 MRC Laboratory 19-AUG-52 India

122 Ada E Yonath f Che Biochemistry 2009 Weizmann Institute of Science 22-JUN-39 Isreal

LAUREATE\_ID NAME G CAT FIELD YEAR\_AWARD AFF\_ROLE DOB COUNTRY

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123 Elizabeth H Blackburn f Med Enzymes 2009 University of California 26-NOV-48 Australia

124 Carol W Greider f Med Enzymes 2009 Johns Hopkins University 15-APR-61 USA

125 Barack H Obama m Pea World organizing 2009 President of USA 04-AUG-61 USA

126 Oliver E Williamson m Eco Economic governance 2009 University of California 27-SEP-32 USA

127 Elinor Ostrom m Eco Economic governance 2009 Indiana University 07-AUG-33 USA

128 Herta Muller f Lit German 2009 17-AUG-53 Romania

28 rows selected.

SQL>

SQL> REM 12.Insert a new tuple into the nobel relation.

SQL>

SQL> INSERT INTO nobel VALUES (129,'Abdul Kalam','m','Phy','Satellite Launch',2004,null,'01-oct-1935','India');

1 row created.

SQL>

SQL> REM 13.Update the aff\_role of literature laureates as 'Linguists'.

SQL>

SQL> UPDATE nobel

2 SET aff\_role='Linguists'

3 WHERE category='Lit';

3 rows updated.

SQL>

SQL> REM 14.Delete the laureate(s) who was awarded in Enzymes field.

SQL>

SQL> DELETE FROM nobel

2 WHERE field='Enzymes';

2 rows deleted.

SQL>

SQL> REM 15.Discard the most recent update operations (rollback).

SQL> ROLLBACK TO spt;

Rollback complete.

SQL>

SQL> REM Commit the changes.

SQL>

SQL> COMMIT;

Commit complete.

SQL> spool off;