Page 100, Exercise 1:

A. SELECT MECHNAME, AGE FROM MECHANIC;

B. SELECT \* FROM AIRPORT WHERE SIZE >= 20 AND YEAROPENED >= 1935 ORDER BY SIZE ASC;

C. SELECT \* FROM AIRPORT WHERE SIZE >= 20 OR YEAROPENED >= 1935;

D. SELECT AVG(SIZE) FROM AIRPORT WHERE YEAROPENED >= 1935;

E. SELECT COUNT(AIRNAME) FROM AIRPORT WHERE YEAROPENED >= 1935;

F. SELECT COUNT(AIRNAME), STATE FROM AIRPORT WHERE YEAROPENED>=1935 GROUP BY STATE;

G. SELECT COUNT(AIRNAME), STATE FROM AIRPORT WHERE YEAROPENED>=1935 GROUP BY STATE HAVING COUNT(AIRNAME) >= 5;

H. SELECT MECHNUM FROM MECHANIC WHERE MECHANIC.AIRNAME = AIRPORT.AIRNAME AND STATE LIKE ‘CA’;

I. SELECT MECHNAME FROM MECHANIC WHERE MECHANIC.MECHNUM = QUALIFICATION.MECHNUM AND QUALIFICATION.SKILLNUM = SKILL.SKILLNUM AND SKILLNAME = ‘FAN BLADE REPLACEMENT’ AND PROFRATE = 4;

J. SELECT MECHNAME FROM MECHANIC WHERE MECHANIC.MECHNUM = QUALIFICATION.MECHNUM AND MECHANIC.AIRNAME=AIRPORT.AIRNAME AND QUALIFICATION.SKILLNUM = SKILL.SKILLNUM AND SKILLNAME LIKE ‘FAN BLADE REPLACEMENT’ AND PROFRATE = 4 AND STATE LIKE ‘CA’;

K. SELECT SUM(SALARY) FROM MECHANIC WHERE STATE LIKE ‘CA’ GROUP BY CITY;

L. SELECT AIRNAME FROM AIRPORT WHERE SIZE = (SELECT MAX(SIZE) FROM AIRPORT);

M. SELECT AIRNAME FROM AIRPORT WHERE SIZE = (SELECT MAX(SIZE) FROM AIRPORT WHERE STATE LIKE’CA’);

Page 102 Minicase 1:

A. SELECT STARTDATE, ENDDATE FROM CRUISE WHERE SRUISENUM = 35218;

B. SELECT SHIPNAME, SHIPNUM FROM SHIP WHERE BUILDER LIKE ‘ACE SHIPBUILDING CORP.’ AND WEIGHT >= 60000;

C. SELECT DISTINCT BUILDER FROM SHIP;

D. SELECT SUM(NUMDOCKS) FROM PORT WHERE COUNTRY LIKE ‘CANADA’;

E. SELECT AVG(WEIGHT) FROM SHIP WHERE BUILDER LIKE ‘ACE SHIPBUILDING CORP.’ AND LAUNCHDATE >= 2000;

F. SELECT COUNT(PORTNAME) FROM PORT WHERE COUNTRY LIKE ‘VENEZUELA’ AND NUMDOCKS >= 3;

G. SELECT COUNTRY, (SUM(NUMDOCKS)) AS TOTAL FROM PORT GROUP BY COUNTRY ORDER BY TOTAL DESC;

H. SELECT COUNT(PORTNAME), COUNTRY FROM PORT GROUP BY COUNTRY;

I. SELECT (SUM(NUMDOCKS)) AS TOTAL, COUNTRY FROM PORT GROUP BY COUNTRY HAVING TOTAL >= 12;

J. SELECT SHIPNAME FROM SHIP WHERE SHIP.SHIPNUM = CRUISE.SHIPNUM AND CRUISENUM = 35218;

K. SELECT PASSENGERNAME, STATE, COUNTRY FROM PASSENGER WHERE PASSENGER.PASSENGERNUM = VOYAGE.PASSENGERNUM AND VOYAGE.CRUISENUM = CRUISE.CRUISENUM AND CRUISE.SHIPNUM = SHIP.SHIPNUM WHERE SHIPNAME =’THE SPIRIT OF NASHVILLE’ AND STARTDATE >= JULY, 2011;

*(Note: don’t know how dates are saved in database, query depends on data type)*

L. SELECT SHIPNAME, BUILDER FROM SHIP WHERE WEIGHT = (SELECT MAX(WEIGHT) FROM SHIP GROUP BY BUILDER);

M. SELECT SHIPNAME, BUILDER FROM SHIP WHERE WEIGHT = (SELECT MAX(WEIGHT) FROM SHIP WHERE SHIP.SHIPNUM = CRUISE.SHIPNUM AND STARTDATE BETWEEN JULY 15 2011 AND JULY 31 2011 GROUP BY BUILDER);

*(Note: don’t know how dates are saved in database, query depends on data type)*