```
SQL> /* CLARA CHEROTICH CHELIBEI */
SQL> /* LAB2-CHELIBEI */
SQL > /* Q.no.1 * 1. Create a table named prod table. This table should
have two columns named prod id and prod description. These columns should
be defined to store the following type of data, respectively: prod id
stores numeric data that is a maximum of 3 characters in size;
prod description stores variable character data that is a maximum of 25
characters in size */
SQL> CREATE TABLE prod table ( prod id NUMBER (3),
  2 prod description VARCHAR2 (25));
Table created.
SQL> /* Displays created table */
SQL> /* Q.no.2 Insert 2 rows into the test table */
SQL> INSERT INTO prod table VALUES (1, 'Wheel');
1. row created.
SQL> INSERT INTO prod table VALUES (2, 'Nuts and Bolts');
1. row created.
SQL> /* the 2 rows has been created into 'prod table' */
SOL>
SQL> /* Q.no.3 Use DESCRIBE to describe the prod table */
SQL> DESC prod_table;
                                          Null? Type
PROD ID
                                                   NUMBER (3)
PROD DESCRIPTION
                                                    VARCHAR2 (25)
SQL> /*The output displays the 'prod table' with its columns their data
types.*/
SQL>
SQL> /* Q.no.4 Use the following SELECT command to display the rows in the
prod table.*/
SQL> SELECT * FROM prod table;
  PROD ID PROD DESCRIPTION
        1. Wheel
         2. Nuts and Bolts
SQL> /*output shows columns of the 'prod table.'*/
SOL>
SQL> /* Q.no.5 Use the DROP command to drop the prod table.*/
SQL> DROP TABLE prod table;
Table dropped.
SQL> /* table successfully dropped */
SQL> /* Q.no.6 Create the deptBusiness table described below:*/
SQL> CREATE TABLE DeptBusiness (
```

```
3. DepartmentNumber
                         NUMBER (4)
  4. CONSTRAINT PK DeptBusiness PRIMARY KEY,
  5. DepartmentName VARCHAR2 (25)
  6. CONSTRAINT NN_DepartmentNamee NOT NULL,
  7. ManagerID
                          CHAR (5)
  8.);
CREATE TABLE DeptBusiness (
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> CREATE TABLE DeptBusiness (
  9. DepartmentNumber NUMBER(4)
  10. CONSTRAINT PK DeptBusiness PRIMARY KEY,
  11.DepartmentName VARCHAR2 (25)
  12. CONSTRAINT NN DepartmentNamee NOT NULL,
  13.ManagerID
                         CHAR(5)
  14.);
CREATE TABLE DeptBusiness (
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> DROP TABLE DeptBusiness;
Table dropped.
SQL> CREATE TABLE DeptBusiness (
  15.DepartmentNumber NUMBER(4)
  16. CONSTRAINT PK DeptBusiness PRIMARY KEY,
  17.DepartmentName VARCHAR2 (25)
  18. CONSTRAINT NN DepartmentNamee NOT NULL,
  19.ManagerID
                         CHAR(5)
  20.);
Table created.
SQL> /* Q.no.7 Add the data shown below to the deptBusiness table. Do not
define any foreign keys. Leave the ManagerID column values as NULL.*/
SQL> INSERT INTO DeptBusiness (DepartmentNumber, DepartmentName)
  21. VALUES (1106, 'CMIS');
1. row created.
SQL> INSERT INTO DeptBusiness (DepartmentNumber, DepartmentName)
  2. VALUES (1105, 'Accounting');
1. row created.
SQL> INSERT INTO DeptBusiness (DepartmentNumber, DepartmentName)
  2. VALUES (1100, 'Production');
1. row created.
SQL> INSERT INTO DeptBusiness (DepartmentNumber, DepartmentName)
```

```
2. VALUES (1102, 'Economic Finance');
1. row created.
SQL> /* all values added to deptBusiness table*/
SQL> /*Q.no.8 a. COMMIT your row insertions in the deptBusiness table. (SQL>
COMMIT;)
SQL> b. Try to INSERT the data for department number 1106 again in the
deptBusiness table. Did Oracle accept i
SQL> COMMIT;
SQL> COMMIT;
SQL> COMMIT;
SOL>
SQL> COMMIT;
SQL> COMMIT TABLE DeptBusiness;
SQL> SELECT @@TRANCOUNT;
SQL>
SQL>
SOL> COMMIT
SQL> COMMIT;
SQL> INSERT INTO DeptBusiness (DepartmentNumber, DepartmentName)
SQL> INSERT INTO DeptBusiness (DepartmentNumber, DepartmentName)
SQL> VALUES (1106, 'CMI
SQL> INSERT INTO DeptBusiness (DepartmentNumber, DepartmentName)
SQL> VALUES (1106, 'CMI
SQL> COMMIT;
SOL>
SQL> COMMIT;
SQL>
SQL>
SQL>
SOL>
SQL> COMMIT;
Commit complete.
SQL> /* all changes successfully applied*/
SQL> INSERT INTO DeptBusiness (DepartmentNumber, DepartmentName)
  2. VALUES (1106, 'CMIS');
INSERT INTO DeptBusiness (DepartmentNumber, DepartmentName)
ERROR at line 1:
ORA-00001: unique constraint (USER2.PK DEPTBUSINESS) violated
SQL> /*value is not accepted error: Unique constraint violated*/
SOL>
SQL> /* Q.no.9 Use the following SELECT command to display the rows in the
deptBusiness table.*/
SQL> SELECT * FROM DeptBusiness;
DEPARTMENTNUMBER DEPARTMENTNAME
_____
           1106 CMIS
            1105 Accounting
            1100 Production
```

1102 Economic Finance

SQL> /*displays the 'DeptBusiness' table with all data entries within it.*/ SQL> /* Q.no.10 Delete the row for department number 1 from the deptBusiness table. (HINT: READ the relevant part of Chapter 2 (SQL Example 2.23 and SQL Example 2.24) to compose your DELETE query correctly. Include the following WHERE clause in your DELETE statement: WHERE DepartmentNumber = 1106).*/

- SQL> DELETE FROM DeptBusiness
 - 3. WHERE DepartmentNumber= 1106;
- 1. row deleted.

SQL> /*Q.no.11 Repeat the SELECT statement in question #9 above to verify your record has been deleted.*/

SQL> SELECT * FROM DeptBusiness;

DEPARTMENTNUMBER DEPARTMENTNAME MANA

1105 Accounting

1100 Production

1102 Economic Finance

SQL> /* Q.no.12 Assume that the deletion of your row was an error. Execute the ROLLBACK command (SQL> ROLLBACK;) to undelete your row (Note: Do not simply reinsert the row to the table). Use the SELECT * statement again to verify that your row has been restored to the table.*/ SQL> ROLLBACK;

Rollback complete.

SQL> /*This SQL command undeletes the row that had been deleted previously 'DeptBusiness' table.*/

SQL> SELECT * FROM DeptBusiness;

DEPARTMENTNUMBER DEPARTMENTNAME MANAG

1106 CMIS

1105 Accounting

1100 Production

1102 Economic Finance

SQL> /*Output shows that the deleted row has been successfully retrived back after it had been deleted*/

SQL> /* Q.no.13 The name for $\hat{a}\ddot{A}\dot{o}$ Production $\hat{a}\ddot{A}\hat{o}$ department got changed to $\hat{a}\ddot{A}\dot{o}$ Operations $\hat{a}\ddot{A}\hat{o}$. Update the DepartmentName column of this change accordingly. (HINT: READ the relevant part of Chapter 2 (SQL Example 2.26 and SQL Example 2.27) to compose your UPDATE query correctly. Do not forget to include the single quotes in the department name values as these are character data). Repeat the SELECT statement in question #9 above to verify your output.*/

SQL> UPDATE DeptBusiness

- 2. SET DepartmentName = 'Operations'
- 3. WHERE DepartmentName= 'Production';

1. row updated.

SQL> /*The 'DepartmentName' has been updated from 'Production' to 'Operations'*/

SQL> SELECT * FROM DeptBusiness;

DEPARTMENTNUMBER DEPARTMENTNAME _____

1106 CMIS

1105 Accounting

1100 Operations

1102 Economic Finance

SQL> /*The update department name can be seen in the output.*/ SQL> /* Q.no.14 Alter the deptBusiness table to add a column that will be used to store the department phone. Name this column DepartmentPhone and use an appropriate NUMBER datatype specification. You do not need to store any data to this column. (HINT: READ the relevant part of Chapter 2 with example to compose your ALTER command correctly). Repeat the SELECT statement in question #9 above to verify your output.*/ SQL> ALTER TABLE DeptBusiness ADD (DepartmentPhone NUMBER (10));

Table altered.

SQL> SELECT * FROM DeptBusiness;

DEPARTMENTNUMBER DEPARTMENTNAME MANAG DEPARTMENTPHONE

______ _____

1106 CMIS

1105 Accounting

1100 Operations

1102 Economic Finance

SQL> /*Output shows newly added column 'DepartmentPhone' in the table DeptBusiness*/

SQL> /* Q.no.15 Use the DROP command to drop the DeptBusiness table. Use the SELECT statement given in question #9 above to display the deptBusiness table. You should get an error message as the table no longer exists?*/ SQL> /*Table sucessfully droped*/

SQL> SELECT * FROM DeptBusiness;

DEPARTMENTNUMBER DEPARTMENTNAME

MANAG DEPARTMENTPHONE

______ ____

1106 CMIS

1105 Accounting

1100 Operations

1102 Economic Finance

SQL> /*error message appears, because the Table was already droped, the output is: table does not exist*/ SQL> SPOOL OFF;

```
SQL> /*CLARA CHEROTICH CHELIBEI*/
SQL> /* LAB4-CHELIBEI*/
SQL> /* Q.no.1 1. Write a query that will select all columns from the
Specialty table without using the (*) in your query. You may wish to use the
DESCRIBE command to examine the structure of the Specialty table */
SQL> /* I want to examine the specialty of my table */
SQL> DESC Specialty;
Name
                                     Null? Type
NOT NULL CHAR(6)
SPECIALTYID
                                      NOT NULL VARCHAR2 (50)
TITLE
AWARDEDBY
                                              VARCHAR2 (100)
SQL> /* it displays the columns of the specialty table */
SQL> SELECT SPECIALTYID, TITLE, AWARDEDBY FROM Specialty;
SPECIA TITLE
AWARDEDBY
OPT Optometrist
Complete certified program of instruction for Optometry.
ONC
      Oncologist
Complete Medical Doctor of Oncology board certification.
      Radiologist
Complete Medical Doctor of Radiology board certification.
SPECIA TITLE
AWARDEDBY
     Cardiologist
Complete Medical Doctor of Cardiology board certification.
GYN
      Gynecologist
Complete Medical Doctor of Gynecology board certification.
GMD General Practitioner
Complete Medical School.
SPECIA TITLE
AWARDEDBY
______
SU1 Surgeon-Thoracic
Complete Thoracic Surgeon board certification.
```

SU2 Surgeon-General Complete General Surgeon board certification.

SU3 Neurosurgeon

Complete Neurosurgery board certification.

SPECIA TITLE

AWARDEDBY

PED Pediatrician

Complete Medical Doctor of Pediatrics board certification.

SU4 Surgeon-Abdominal Cavity

Complete Abdominal Surgical Procedures board certification.

RN1 Registered Nurse

Complete Registered Nurse board certification.

SPECIA TITLE

AWARDEDBY

LPN Licensed Practicing Nurse

Complete Licensed Practicing Nurse board certification.

NPR Nurse-Practitioner

Complete Nurse-Practitioner board certification.

RA2 Radiology Technologist

Complete program of instruction in radiology technology.

15 rows selected.

SQL> /* I can all the columns in the specialty table */ SQL> /* Q.no.2 2. Your manager wonders what types of employee titles are tracked in the Employee table. Produce a sample listing of the titles of employees at the hospital that does not include any duplicate rows */ SQL> SELECT distinct title FROM employee;

TITLE

Hospital Chief

M.D.

Pharmacist

M.D.-Chief of Surgery

Records Clerk

Rad. Tech.

R.N.

V.P. Admin

Building Custodian

L.P.N.

10 rows selected.

```
SQL> /* We can see 10 different types of the employee titles in the employee
table */
SQL> /* Q.no.3 3. Execute a query that will display all treatment dates for
patient 100302. Include the patientID, employeeID, and date treated */
SQL> /* need to do formating first */
SQL> COLUMN PatientID FORMAT A10;
SQL> COLUMN EmployeeID FORMAT A12;
SQL> COLUMN DateTreated FORMAT A12;
SQL> SELECT PatientID, EmployeeID, DateTreated FROM Treatment WHERE PatientID
='100302';
PATIENTID EMPLOYEEID
                      DATETREATED
          66427
100302
                       22-MAY-24
100302
          67585
                       22-MAY-24
          67585
                       22-MAY-24
100302
100302
          66444
                       22-MAY-24
100302
         67585
                       22-MAY-24
SQL> /* it has displayed all the employees with PatientID 100302 */
SOL>
SQL>
SQL > /* Q.no.4  4. Execute a query that lists all the male nurses \hat{a}Ai i.e.,
employees with a job title that includes the degree âAoR.N..âAo List each
employee\hat{A}\hat{A}\hat{O}s last name, first name, title, and gender. Format your columns
so that lastName is 12 characters, firstName is 12 characters, title is 5
characters, and gender is 6 characters */
SQL> /* M-Male Gender*/
SQL> COLUMN LastName FORMAT A12;
SQL> COLUMN FirstName FORMAT A12;
SQL> COLUMN Title FORMAT A5;
SQL> COLUMN Gender FORMAT A6;
SQL> SELECT LastName, FirstName, Title, Gender FROM Employee WHERE Title like
'%R.N..%' AND Gender= 'M';
no rows selected
SQL> /* there is no row selected*/
SQL>
SOL>
SQL> /*Q.no.5. Produce a listing that will only display patients from
Alton or Collinsville. The result table should display the first name and
last name of these patients as well as the city they are from. Sort the
report by city. Format first name and last name so they are 12 characters
wide each */
SQL> SELECT FirstName, LastName, City WHERE City IN ('Alton', 'Collinsville')
ORDE by City;
SELECT FirstName, LastName, City WHERE City IN ('Alton', 'Collinsville') ORDE
by City
ERROR at line 1:
ORA-00923: FROM keyword not found where expected
```

SQL> SELECT FirstName, LastName, City FROM Patient WHERE City IN ('Alton','Collinsville') ORDER BY City;

FIRSTNAME	LASTNAME	CITY
Ronald Barbara Gretchen Gregory Harold Ivy Juliet Keith Linda	Able Howard Benton Greathouse Grant Harnett Iona Juneau Kraut Lima Henderson	Alton
FIRSTNAME	LASTNAME	CITY
Ilama Norman Rudolph Renny Zina Albert Bradley Danny	Ilama November Pappa Reinhardt Zenna Algebra Beaufort Dunland Davis Chen	Alton Alton Alton Alton Alton Alton Alton Alton Alton Collinsville

21 rows selected.

SQL> /* OBSERVATIONS: There are 21 rows combined from both city Alton and Collinsville. 19 are from city Alton specific and 2 from city Collinsville specific */ SQL>

SQL> /* Q.no.6. Execute a query that will display all equipment with an original cost below \$500, AND either have 10 or more items in stock (quantityAvailable) OR are used in project 8. List the equipment description, original cost, quantity available, and project number. Format your columns so that the output fits on one row. Format your columns so the output fits on one row */

- SQL> /*taking a look at the table and resizing */
- SQL> COLUMN Description FORMAT A12;
- SQL> COLUMN 'Original Cost' FORMAT 9999.99;
- SQL> COLUMN 'Quantity Available' FORMAT 9999;
- SQL> COLUMN 'Project Number' FORMAT 99;
- SQL> COLUMN 'Orginal Cost' FORMAT 9999.99;
- SQL> SELECT Description, OriginalCost "Orginal Cost", QuantityAvailable "Quantity Available", ProjectNumber "Project Number" FROM Equipment
 - 2 WHERE OriginalCost<500 AND (QuantityAvailable >=10 OR ProjectNumber=8);

DESCRIPTION	Orginal Cost	Quantity Available	Project Number
Tanks, Nitro	355.55	10	2
us Oxide			

Desk, Child	285.40	6	8
Chair, Child	65.40	12	8

SQL> /* the output is distributed perfectly*/ SQL> $\ensuremath{\mbox{}}$

SQL> /*Q.no.7. The CFO needs a report to justify standard charges to the State Health Department. The report should contain the description, standard charge, and category ID. Sort the report by categoryID and then by standard charge. Use the appropriate command to limit the output column width for the description to 30 characters. The report should be sorted first by categoryID and then by standard charge with the highest standard charge for each category appearing first */

SQL> COLUMN Description A30;

SP2-0158: unknown COLUMN option "A30"

SQL> SELECT Description, StandardCharge, CategoryID, FROM Service

2 ORDER BY CategoryID, StandardCharge DESC;

SELECT Description, StandardCharge, CategoryID, FROM Service

ERROR at line 1:

ORA-00936: missing expression

SQL> SELECT Description, StandardCharge, CategoryID

2 FROM Service

3 ORDER BY CategoryID, StandardCharge DESC;

DESCRIPTION	STANDARDCHARGE	
EKG/Interp Hep B 20-adu lt	85	
Hep B 0-19 V FC	185	INJ
Hep A vaccin	175	INJ
Antibiotic I	110	INJ
DESCRIPTION	STANDARDCHARGE	CAT
nj		
Depo Provera Hormone tx	95	INJ
Prevnar Pedi		INJ
Pneumovax ad ult	88	INJ
Depo Provera Contracept	85	INJ
DESCRIPTION	STANDARDCHARGE	CAT

Therapeutic Inj	75	INJ
Vaccine Inj #2 + more	75	INJ
DPT-AC VFC	75	TNIT
DPT-AC VFC		INJ INJ
dT Adult VFC		INJ
Varicella Va		INJ
DESCRIPTION	STANDARDCHARGE	CAT
c VFC		
IIID VEC	C.E.	TNIT
HIB VFC Fluvax		INJ INJ
IPV VFC		INJ
MMR VFC		INJ
Allergy #2 +		INJ
more		
Vaccine Inj	45	INJ
#1		
DESCRIPTION	STANDARDCHARGE	САТ
Allergy #1	25	INJ
Complete Met	115	LAB
abolic		
Prenatal Pan	110	LAB
el	110	תאה
Hgb A1C	95	LAB
Hepatic Func	95	LAB
tion		
DEGCDIDMION	CAN MUY DUCITY DOD	C ⊅ m
	STANDARDCHARGE	
TSH	90	LAB
PSA		LAB
Protime/INR		LAB
Arthritis Pa	75	LAB
nel (RA, ANA		
, UA, ESR)		
Pap Smear	75	LAB
General Pane		LAB
l	33	
DESCRIPTION	STANDARDCHARGE	CAT
Dathology Co	ΕΛ	LAB
Pathology-Ge	50	ПЧБ

neral

Lipid Panel Throat Cultu re		LAB LAB
Urine Cultur	45	LAB
DESCRIPTION	STANDARDCHARGE	CAT
Basic Metabo lic	35	LAB
SGOT CBC Emergency After Hours Comprehensiv e High	21 155 125	LAB LAB OLA OLA OLA
Detailed Pro	95	OLA
DESCRIPTION	STANDARDCHARGE	CAT
blem		
Comprehensiv e. Moderate	75	OLA
Expanded Problem	75	OLA
Problem Focu sed	55	OLA
DESCRIPTION	STANDARDCHARGE	CAT
Special Hand ling	35.75	OLA
Blood Draw Hemoglobin Blood Glucos e	35.55 25 20.4	OLA
Hemocult KOH Wet Smear		OLA OLA
DESCRIPTION	STANDARDCHARGE	
Strep Screen Urine/Micro Prognosis, U	13.5 12.9	OLA

rine

Urine/Dip Spirometry Audiometry Tympanometry Cerumen-oval Burn Debride	40 35	
DESCRIPTION	STANDARDCHARGE	CAT
ment		
Breathing TX DRE Pulse Oxygen Anoscopy Lumbar Spine (5 view)	30 25 21	PRO PRO PRO PRO RAD
Abdomen Obst Series	340	RAD
DESCRIPTION	STANDARDCHARGE	CAT
Foot (3 view)	325	RAD
Ankle (3 vie w)	325	RAD
<pre>Knee (3 view)</pre>	325	RAD
Wrist (3 vie	285	RAD
DESCRIPTION w min)	STANDARDCHARGE	CAT
Hand (3 view)	280	RAD
Calcaneus (2 view min)	275	RAD
Soft Tissue Neck	275	RAD
DESCRIPTION	STANDARDCHARGE	CAT
Hip (2 view min)	275	RAD
Clavicle (2	250	RAD

- ,		
Shoulder (2 view min)	250	RAD
Abdomen (KUB)	240	RAD
DESCRIPTION	STANDARDCHARGE	
CXR (2 view) Elbow (2 vie w)		RAD RAD
Toe (2 view min)	225	RAD
Finger (2 vi ew)	225	RAD
DESCRIPTION	STANDARDCHARGE	
C-Spine (4 v iew min)	205	RAD
CXR (1 view) Cranial Thoracic-Hea	170 10000 9500	
Abdominal-In testine	7800	SUR
	STANDARDCHARGE	
	7800 7500 6500 6500	SUR SUR SUR
Thoracic-Gen eral Explora tory	6200	SUR
Abdominal-Ge	6000	SUR
DESCRIPTION	STANDARDCHARGE	CAT
neral		
Spinal-Disc Spinal-Explo ratory	3800 3500	

Fracture-Com plex	2500	SUR
Fracture-Sim ple	1500	SUR
DESCRIPTION	STANDARDCHARGE	CAT
Appendectomy I and D Comp . Multiple	555 320	SUR SUR
I and D Simp le	258	SUR
Cerumen-oval F.B.	230	SUR
DESCRIPTION	STANDARDCHARGE	CAT
Skin Lesion Paring	225	SUR
Nail Bed Des truct	185	SUR
Nail Avulsio n	175	SUR
105 rows sele	ected.	
SQL> /*It dis SQL> SQL> SPOOL O	splays a table v	with 105 rows */

```
SQL> /*CLARA CHEROTICH CHELIBEI*/
SQL> /* LAB5-CHELIBEI*/
SQL> /* Q.no.1. The charge nurse wants to see the medications that have
instructions for child dosages and have a quantity on hand of less than
1,000. Instructions indicating if the medicine is for children can be found
in the dosage field of the Medicine table. The term child may appear
anywhere in this field. Create a list that includes the common name and
scientific name of the medication. Restrict common name to 15 characters and
scientific names to 20 characters*/
SQL> COLUMN Commonname FORMAT A20;
SQL> COLUMN ScientificName FORMAT A20;
SQL> COLUMN CommonName FORMAT A15;
SQL> COLUMN Commonname FORMAT A15;
SQL> SELECT Commonname, ScientificName
  2 FROM Medicine
  3 WHERE Disage LIKE '%child%' AND QuantityOnhand <1000;
WHERE Disage LIKE '%child%' AND QuantityOnhand <1000
ERROR at line 3:
ORA-00904: "DISAGE": invalid identifier
SQL> SELECT Commonname, ScientificName
  2 FROM Medicine
  3 WHERE Dosage LIKE '%child%' AND QuantityOnhand <1000;
COMMONNAME
             SCIENTIFICNAME
              Hydroxyzine
SQL> /* the medication name required is Atarax (Commonname) */
SOL>
SQL> /* Q.no.2. The HR director of the hospital has learned that the
average monthly salary of employees is about $15,000. She would like a
report of all employee names who earn more than $10,000 a month and less
than $20,000 monthly. Use the BETWEEN operator. Sort by salary. Include the
first name and last name of the employee (restrict both names to 12
characters) as well as the salary */
SQL> COLUMN 'First Name' FORMAT A12;
SQL> COLUMN 'Last Name' FORMAT A12;
SQL> COLUMN 'moSalary' FORMAT $99,999;
SQL> SELECT FirstName 'First Name', LastName 'Last Name', Salary 'moSalary'
  2 FROM Employee
  3 WHERE Salary BETWEEN 10000 AND 20000
  4 ORDER BY Salary;
SELECT FirstName 'First Name', LastName 'Last Name', Salary 'moSalary'
ERROR at line 1:
ORA-00923: FROM keyword not found where expected
SQL> COLUMN "First Name" FORMAT A12;
SQL> COLUMN "Last Name" FORMAT A12;
SQL> COLUMN
COLUMN moSalary ON
FORMAT $99,999
```

COLUMN Last Name ON

FORMAT A12

COLUMN First Name ON

FORMAT A12

COLUMN ScientificName ON

FORMAT A20

COLUMN Commonname ON

FORMAT A15

COLUMN Orginal Cost ON FORMAT 9999.99

COLUMN Project Number ON

FORMAT 99

COLUMN Quantity Available ON

FORMAT 9999

COLUMN Original Cost ON

FORMAT 9999.99

COLUMN Description ON

FORMAT A12

COLUMN Gender ON

FORMAT A6

COLUMN Title ON

FORMAT A5

COLUMN FirstName ON

FORMAT A12

COLUMN LastName ON

FORMAT A12

COLUMN DateTreated ON

FORMAT A12

COLUMN EmployeeID ON

FORMAT A12

COLUMN PatientID ON

FORMAT A10

COLUMN NAME_COL_PDB_CLOUD_IDENTITY ON

HEADING 'CLOUD IDENTITY'

COLUMN NAME COL PDB APP ROOT CON ID ON

HEADING 'APP|ROOT|CONID' headsep '|'

FORMAT 9999

COLUMN NAME COL PDBD RESTRICTED ON

HEADING 'REST'

```
FORMAT A4
COLUMN NAME COL PDB APP ROOT CLONE ON
HEADING 'APP|ROOT|CLONE' headsep '|'
       A5
FORMAT
word wrap
COLUMN NAME COL PDBD CON ID ON
HEADING 'CONID'
FORMAT 9999
COLUMN NAME COL PDBD NAME ON
HEADING 'CON NAME'
FORMAT A28
word wrap
COLUMN NAME COL PDB PROXY PDB ON
HEADING 'PXY|PDB' headsep '|'
FORMAT A3
word wrap
COLUMN
       NAME_COL_PDB_APP_SEED ON
HEADING 'APP|SEED' headsep '|'
FORMAT
       A4
word wrap
COLUMN NAME COL PDB_APP_PDB ON
HEADING 'APP|PDB' headsep '|'
       A3
FORMAT
word wrap
COLUMN NAME COL PDB APP ROOT ON
HEADING 'APP|ROOT' headsep '|'
       A4
FORMAT
word wrap
COLUMN NAME COL PLUS PDB RESTRICTED ON
HEADING 'RESTRICTED'
FORMAT A10
COLUMN NAME_COL_PLUS_PDB_OPEN_MODE ON HEADING 'OPEN MODE'
FORMAT A10
COLUMN NAME COL PLUS PDB NAME ON
HEADING 'CON NAME'
FORMAT A30
word_wrap
COLUMN NAME COL PLUS PDB CON ID ON
HEADING 'CON ID'
COLUMN NAME_COL_PLUS_PDB_CONTAINERID ON
HEADING 'CON ID'
FORMAT a30
word wrap
```

```
COLUMN NAME COL PLUS PDB CONTAINER ON
HEADING 'CON NAME'
FORMAT a30
word wrap
        NAME COL PLUS SHOW EDITION ON
COLUMN
HEADING 'EDITION'
FORMAT
       a30
word wrap
COLUMN
       result plus xquery ON
HEADING 'Result Sequence'
COLUMN
       other plus exp ON
FORMAT a44
COLUMN
       other tag plus exp ON
FORMAT
COLUMN
       object node plus exp ON
       a8
FORMAT
COLUMN
       plan plus exp ON
FORMAT a60
COLUMN parent_id_plus_exp ON
HEADING 'p'
FORMAT 990
COLUMN id plus exp ON
HEADING 'i'
FORMAT
       990
COLUMN droptime_plus_show_recyc ON
HEADING 'DROP TIME'
FORMAT a19
COLUMN objtype plus show recyc ON
HEADING 'OBJECT TYPE'
FORMAT a12
COLUMN objectname plus show recyc ON
HEADING 'RECYCLEBIN NAME'
FORMAT a30
COLUMN origname plus show recyc ON
HEADING 'ORIGINAL NAME'
FORMAT
       a16
COLUMN SID COL PLUS SHOW SPPARAM ON
HEADING 'SID'
FORMAT
       a8
word wrap
COLUMN VALUE COL PLUS SHOW SPPARAM ON
HEADING 'VALUE'
```

FORMAT

a28

```
word wrap
COLUMN NAME COL PLUS SHOW SPPARAM ON
HEADING 'NAME'
       a29
FORMAT
word wrap
COLUMN
       value col plus show param ON
HEADING 'VALUE'
FORMAT
       a30
COLUMN name_col_plus_show_param ON
HEADING 'NAME'
FORMAT
       a36
COLUMN units col plus show sga ON
FORMAT a15
COLUMN name_col_plus_show_sga ON
FORMAT a24
COLUMN ERROR ON
FORMAT A65
word wrap
       LINE/COL ON
COLUMN
FORMAT A8
COLUMN
       ROWLABEL ON
FORMAT
       A15
SQL> COLUMN "First Name" FORMAT A12;
SQL> COLUMN "Last Name" FORMAT A12;
SQL> COLUMN "moSalary" FORMAT $99,999;
SQL> SELECT FirstName "First Name", LastName "Last Name", Salary "moSalary"
 2 FROM Employee
 3 WHERE Salary BETWEEN 10000 AND 20000
  4 ORDER BY Salary;
```

First Name	Last Name	moSalary
Maxwell	Eakin	\$15,000
Robert	Klepper	\$15 , 055
Douglas	Bock	\$16 , 250
Elizabeth	Sumner	\$16 , 500
Eugene	Webber	\$17 , 500
Beverly	Boudreaux	\$17 , 520
Robert	Schultheis	\$17 , 525
Bijoy	Bordoloi	\$17 , 850

8 rows selected.

SQL> /* it displays 8 employess whose salary is between 10000 and 20000*/SQL>

SQL> /*Q.no.3. There has been a surge of parents requesting private rooms for their children who have been admitted for surgery. Provide a list of beds available in the following pediatric rooms: PED101 $\hat{a}\ddot{A}i$ PED105 inclusive.

```
Use the IN command. The room number, bedtype, and availability should be
shown in the report. Use meaningful column titles */
SQL> /* formating them first*/
SQL> COLUMN "Bed Number" FORMAT A12;
SQL> COLUMN "Bed Type" FORMAT A10;
SQL> COLUMN "Bed Availability" FORMAT A18;
SQL> SELECT BedNumber "Bed Number", BedType "Bed Type", BedAvailability "Bed
Availability"
 2 FROM Bed
 3 WHERE RoomNumber IN ('PED101', 'PED102', 'PED103', 'PED104', 'PED105');
SELECT BedNumber "Bed Number", BedType "Bed Type", BedAvailability "Bed
Availability"
ERROR at line 1:
ORA-00904: "BEDAVAILABILITY": invalid identifier
SQL> SELECT BedNumber "Bed Number", BedType "Bed Type", Availability "Bed
Availability"
 2 FROM Bed
  3 WHERE RoomNumber IN ('PED101', 'PED102', 'PED103', 'PED104', 'PED105');
Bed Number B Bed Availability
______
####### P1 N
####### P1 Y
####### P1 N
####### P2 Y
####### P2 Y
SQL> SELECT BedNumber "Bed Number", BedType "Bed Type", Availability "Bed
Availability"
 2 FROM Bed
  3 WHERE RoomNumber IN ('PED101', 'PED102', 'PED103', 'PED104', 'PED105');
Bed Number Bed Type Bed Availability
_____
####### P1
                N
######## P1
                   N
####### P1
######## P2
                    Y
####### P2
SQL> /* All information pediatric room 101-105 are displayed.*/
SQL> /* Q.no.4. The director of HR would like to implement a process of
sending birthday cards to the children of employees. She is requesting a
report that contains the first names and birthdates of all sons and
daughters of employees. You must use the IN command */
SQL> SELECT Name "First Name", BirthDate
 2 FROM Dependent
  3 WHERE RelationshipToEmployee IN ('SON', 'DAUGHTER');
First Name BIRTHDATE
-----
Jo Ellen 05-APR-16
Andrew 25-OCT-18
```

```
Jeffery 01-JAN-08
Deanna 31-DEC-09
Rachael 04-OCT-15
Michelle 17-MAR-04
Anita 06-JUL-14
Monica 30-DEC-16
Rita
             11-MAY-18
9 rows selected.
SQL> /* it displays 9 FirstNames AND Birthdays of sons and daughters of
employees*/
SOL>
SOL>
SQL> /* Q.no.5. Execute a query that will display all employees whose last
name contains the lower case letter 'o' except for the second character
(i.e., the second character can be anything but \hat{a}\ddot{A}\dot{o} o \hat{a}\ddot{A}\hat{o}. List each
employee's first and last name. Use meaningful column titles */
SQL> SELECT FirstName "First Name", LastName "Last Name
SQL> SELECT FirstName "First Name", LastName "Last Name"
  2 FROM Employee
  3 WHERE LastName LIKE '%0%' AND LastName NOT LIKE ' 0'%;
WHERE LastName LIKE '%0%' AND LastName NOT LIKE ' 0'%
ERROR at line 3:
ORA-00911: invalid character
SQL> SELECT FirstName "First Name", LastName "Last Name"
  2 FROM Employee
  3 WHERE LastName LIKE '%0%' AND LastName NOT LIKE ' 0%';
First Name Last Name
Lester Simmons
Billy Thornton
William Clinton
          Barlow
Quattromani
William
Toni
Mary Ellen Brockwell
Leslie Simmons
7 rows selected.
SQL > /* there are 7 employees who have o in their last name but not in the
2nd position*/
SQL>
SQL> /*Q.no.6. Execute a query that lists all employee table rows that
contain a null value in the salary column. List each employeeâ Aôs last name
and supervisor identifying number. Use meaningful column titles. Limit
column width so a line fits on a single row */
SQL> SELECT LastName "Last Name", SupervisorID "Supervisor Identifying
Number"
```

- 2 FROM Employee
- 3 WHERE Salary IS NULL;

```
Last Name Super
_____
Thornton 33355
Clinton 33355
SQL> /* It displays 2 employees whose salaries are null*
SQL> /* Q.no.7. Execute a query that will display all patients whose first
name begins with the same letter as your first name. List each patientâÂôs
first name and last name. Format the output so the full name appears on one
line. Provide meaningful column titles. If your last name begins with the
X, list patients whose first name begins with the same letter as your middle
name. Use meaningful column titles */
SQL> /* my FirstName is Clara*/
SQL> COLUMN "First Name
string beginning ""First Nam..." missing terminating quote (").
SQL> COLUMN "First Name" FORMAT A12;
SQL> COLUMN "Last Name" FORMAT A12;
SQL> SELECT FirstName "First Name", LastName "Last Name"
  2 FROM Patient
  3 WHERE FirstName LIKE 'C%';
First Name Last Name
Charlie Chang
Clyde
           Crawford
SQL > /* i want to search for employees whose first name begin with the first
letter of my last name which is Chelibei*/
SQL> SELECT FirstName "First Name", LastName "Last Name"
 2 FROM Patient
  3 WHERE FirstName LIKE 'C%';
First Name Last Name
_____
Charlie
          Chang
Clyde
           Crawford
SQL>
SQL> /*Q.no.8. Execute a query that will display each employee's last
name, annual salary, monthly salary, and weekly salary. The list should
only include employees with a weekly salary that is less than $1,000.00.
Label the column names for annual salary, monthly salary, and weekly salary
as Annual, Monthly, and Weekly, respectively. Sort the output by employee
last name. Format the columns named Annual, Monthly, and Weekly as
$999,999.99. Be careful in how you compute the weekly salary! You may
assume 4 weeks to a month. You can assume the field Salary represents the
monthly salaries of employees. Use meaningful column titles */
SQL> COLUMN "Annual" FORMAT $999,999.99;
SQL> COLUMN "Monthly" FORMAT $999,999.99;
SQL> COLUMN "Weekly" FORMAT $999,999.99;
SQL> SELECT LastName "Last Name", Salary*12 "Annual", Salary "Monthly",
Salary/4 "Weekly"
 2 FROM Employee
  3 WHERE Salary/4 < 1000
```

4 ORDER BY LastName;

Last Name	Annual	Monthly	Weekly
Simmons	\$26,400.00	\$2,200.00	\$550.00
Young	\$26,400.00	\$2,200.00	\$550.00

SQL>

SQL>

SQL> SPOOL OFF;

```
SQL> /*CLARA CHEROTICH CHELIBEI*/
SQL> /*LAB6-CHELIBEI*/
SQL> /*Q.no.1. A manager from the human resources department needs you to
write a query to count the number of employees of the company that are
nurses (either Title = 'R.N.' OR Title = 'L.P.N.'. Label the output column
Number of Nurses */
SQL> SELECT count(*) "Number of Nurses"
  2 FROM Employee
    WHERE Title in ('R.N', 'L.P.N.');
Number of Nurses
SQL> /* There are 2 Nurses */
SQL>
SQL> /* Q.no.2. Accountants working on the company's annual budgeting
process need to know the average cost of the equipment being used on
projects (originalCost) and the sum of all equipment costs. The information
is stored in the Equipment table. The result table should have two columns
based on a single query. Label the columns Average Equipment Cost and Total
Equipment Cost. Format the output as $99,999.99 */
SQL> COLUMN "Average Equipment Cost" FORMAT $99,999.99;
SQL> COLUMN "Total Equipment Cost" FORMAT $99,999.99;
SQL> SELECT AVG(OriginalCost) "Average Equipment Cost", SUM(OriginalCost)
  2 "Total Equipment Co
  3 FROM Equipment;
ERROR:
ORA-01740: missing double quote in identifier
SQL> COLUMN "Average Equipment Cost" FORMAT $99,999.99;
SQL> COLUMN "Total Equipment Cost" FORMAT $99,999.99;
SQL> SELECT AVG(OriginalCost) "Average Equipment Cost", SUM(OriginalCost)
 2 "Total Equipment Cost"
  3 FROM Equipment;
Average Equipment Cost Total Equipment Cost
-----
            $2,019.85
                                $18,178.67
SQL> /* The Average Equipment cost is $2,019.85 and Total Equipment
Cost is $ 18,178.67 */
SQL>
SQL> \/* Q.no.3. The BirthDate column in the dependent table stores date of
birth information for dependents of employees of the company. Write a query
to display the date of birth of the oldest dependent listed in the table.
No special output column label is required */
SP2-0734: unknown command beginning "\/\ Q.no.3..." - rest of line ignored.
SQL> /* Q.no.3. The BirthDate column in the dependent table stores date of
birth information for dependents of employees of the company. Write a query
to display the date of birth of the oldest dependent listed in the table.
No special output column label is required */
SQL> SELECT MIN(BirthDate)
 2 FROM Dependent;
```

MIN (BIRTH

05-MAY-76

SQL> /* This displays the oldest dependent born on 5-MAY-76 */ SQL>

SQL> /* 4. Write a query to provide the Executive Director with the total hours worked per project. Use the ProjectNumber and HoursWorked columns from the ProjectAssiginment table to obtain the project numbers and hours worked, respectively. Label the two columns Project Number and Total Hours respectively. Sort by project number. Format the output for the Total Hours column as 999.99. */

SQL> COLUMN "Total Hours" FORMAT 999.99;

47.10

SQL> SELECT ProjectNumber "Project Number" ,SUM(HoursWorked) "Total Hours"

- 2 FROM ProjectAssignment
- 3 GROUP BY ProjectNumber
- 4 ORDER BY ProjectNumber;

Project Number Total Hours

1. 14.20 2. 10.60 3. 52.80 4. 69.10 5. 86.10 6

8 rows selected.

SQL> /* I displays a table that shows Project Number and Total Hours */ SQL>

SQL> /* Q.no.5. The government reporting regulation also requires a report of the count of all employees who are NOT M.D.s. M.D. could appear anywhere in the title. Write a query that will produce a result table with two columns labeled Title and Non M.D. Employees. Format the Title column so it is 20 characters */

SQL> SELECT Title "Title", COUNT(Title) "NON M.D Employees"

- 6. FROM Employee
- 7. WHERE Title NOT LIKE '%M.D%'
- 8. GROUP BY Title;

Title	NON M.D Employees
Hospital Chief	1
Pharmacist	1
Records Clerk	1
Rad. Tech.	1
R.N.	2
V.P. Admin	1
Building Custodian	2
L.P.N.	2

8 rows selected.

SQL> /* The where clause eliminated anything withy Title M.D */

```
SQL> /* The whyere clause eliminated any emloyee with $\tt Title\ M.D*/\ SQL> /*There are 11 Non M.D employees */ SQL>
```

SQL> /* Q.no.6. The CEO would like a report with PatientIDs and the total amount of treatment charges they have had. The resulting report should have two columns: Patient and Total Charges. The report should be listed in Total Charges order with the patients with the lowest Total Charges at the top. The CEO wants to see only those patients whose total charges are less than \$350 */

SQL> SELECT PatientID "Patient", SUM(ChargeAmount) "Total Charges"

- 9. FROM Treatment
- 10.GROUP BY PatientID
- 11. HAVING SUM (ChargeAmount) < 350
- 12.ORDER BY SUM(ChargeAmount);

Patien 100001 555005 100024 421224 100002 100051 100028 222002 333115 333110 421227	Total Charges 15.4 30 55.95 60.55 65 75 75 95 110 115
Patien 100029 100026 421223 100025 100423 333113 100506 666120 333111 333114 100305	Total Charges
Patien 421226 421225 100030 666118 100301 100503 100502 100425 222006 100505 333116	Total Charges

```
Patien Total Charges
----- 421228 325
421222 325
100302 325.55
100501 331.55
```

37 rows selected.

```
SQL> /* It displays a table of patients and their total charge*/SQL>
```

SQL> /*Q.no.7. Modify the query written for question 6. Now the CEO would like to see average charges for treatments each patient is responsible for. But, he does not want treatment charges of under \$500 considered in the average. After averaging, the report should show only those patients whose average treatment charges are greater than \$500 */

SQL> SELECT PatientID "Patient", AVG(ChargeAmount) "average charges"

- 13.FROM Treatment
- 14.WHERE ChargeAmount>=500
- 15. GROUP BY PatientID
- 16. HAVING AVG (Charge Amount) > 500
- 17.ORDER BY SUM(ChargeAmount);

Patien average charges -----100003 555 100031 600 421221 1480 100306 6200 100500 6500 666121 6500 222001 7800 100424 8500

8 rows selected.

```
SQL> /* It displays a table patients with their Average Charge */
SQL>
SQL>
SQL> SPOOL OFF;
```

```
SQL> /*CLARA CHEROTICH CHELIBEI */
SQL> /*LAB7-CHELIBEI*/
SQL>
SQL> /*Q.n.1.
                The company's vice president for project management needs a
listing of employees who have received specialties. The result table should
list the employee name (last name first, then first name) and their
associated specialty title and the date they received the specialty. Format
the columns so output lines are on a single row. The column header for the
Specialty title should be 'Specialty Name'. */
SQL> COLUMN
COLUMN NAME COL PDB CLOUD IDENTITY ON
HEADING 'CLOUD IDENTITY'
COLUMN NAME COL PDB APP ROOT CON ID ON
HEADING 'APP|ROOT|CONID' headsep '|'
FORMAT
       9999
COLUMN NAME COL PDBD RESTRICTED ON
HEADING 'REST'
FORMAT
COLUMN NAME COL PDB APP ROOT CLONE ON
HEADING 'APP|ROOT|CLONE' headsep '|'
FORMAT
word wrap
COLUMN
       NAME COL PDBD CON ID ON
HEADING 'CONID'
        9999
FORMAT
COLUMN NAME COL PDBD NAME ON
HEADING 'CON NAME'
       A28
FORMAT
word wrap
        NAME COL PDB PROXY PDB ON
COLUMN
HEADING 'PXY|PDB' headsep '|'
FORMAT
        А3
word wrap
COLUMN
        NAME COL PDB APP SEED ON
HEADING 'APP|SEED' headsep '|'
FORMAT
word wrap
       NAME COL PDB APP PDB ON
COLUMN
HEADING 'APP|PDB' headsep '|'
FORMAT
       A3
word wrap
COLUMN NAME COL PDB APP ROOT ON
HEADING 'APP|ROOT' headsep '|'
FORMAT
word wrap
        NAME COL PLUS PDB RESTRICTED ON
COLUMN
HEADING 'RESTRICTED'
```

```
FORMAT A10
COLUMN NAME COL PLUS PDB OPEN MODE ON
HEADING 'OPEN MODE'
FORMAT A10
COLUMN NAME COL PLUS PDB NAME ON
HEADING 'CON NAME'
FORMAT A30
word wrap
COLUMN NAME COL PLUS PDB CON ID ON
HEADING 'CON ID'
COLUMN NAME COL PLUS PDB CONTAINERID ON
HEADING 'CON ID'
FORMAT a30
word wrap
COLUMN
        NAME COL PLUS PDB CONTAINER ON
HEADING 'CON NAME'
FORMAT
       a30
word wrap
COLUMN NAME COL PLUS SHOW EDITION ON
HEADING 'EDITION'
FORMAT a30
word_wrap
COLUMN
       result plus xquery ON
HEADING 'Result Sequence'
COLUMN other_plus_exp ON
FORMAT a44
COLUMN other tag plus exp ON
      a29
FORMAT
COLUMN
       object node plus exp ON
FORMAT
       a8
COLUMN plan plus exp ON
FORMAT a60
COLUMN parent_id_plus_exp ON
HEADING 'p'
FORMAT 990
COLUMN id_plus_exp ON HEADING 'i'
FORMAT 990
COLUMN droptime_plus_show_recyc ON
HEADING 'DROP TIME'
FORMAT
       a19
COLUMN
        objtype plus show recyc ON
```

```
HEADING 'OBJECT TYPE'
FORMAT a12
COLUMN objectname plus show recyc ON
HEADING 'RECYCLEBIN NAME'
FORMAT a30
COLUMN origname plus show recyc ON
HEADING 'ORIGINAL NAME'
FORMAT a16
COLUMN SID COL PLUS SHOW SPPARAM ON
HEADING 'SID'
FORMAT
        a8
word wrap
COLUMN VALUE COL PLUS SHOW SPPARAM ON
HEADING 'VALUE'
FORMAT a28
word wrap
COLUMN
        NAME COL PLUS SHOW SPPARAM ON
HEADING 'NAME'
FORMAT
       a29
word wrap
COLUMN value col plus show param ON
HEADING 'VALUE'
FORMAT
        a30
COLUMN name col plus show param ON
HEADING 'NAME'
       a36
FORMAT
COLUMN units_col_plus_show_sga ON
FORMAT
      a15
COLUMN name col plus show sga ON
FORMAT a24
COLUMN
       ERROR ON
FORMAT
       A65
word wrap
       LINE/COL ON
COLUMN
      A8
FORMAT
COLUMN
       ROWLABEL ON
FORMAT
        A15
SQL> COLUMN "Employee Name" FORMAT A24;
SQL> COLUMN "Specialty Name" FORMAT A27;
SQL> COLUMN "Date Recived" FORMAT A12;
SQL> SELECT LastName||', '||FirstName "Employee Name" , s.Title
SQL> SELECT LastName||', '||FirstName "Employee Name" , s.Title "Specialty
Name", DateReceived "Date Recived"
```

2 FROM Employee e JOIN EmployeeSpecialty es ON (e.EmployeeID=es.EmployeeID) JOIN Specialty s ON (es.SpecialtyID=s.SpecialtyID);

Employee Name	Specialty Name	Date Recived
Simmons, Lester Eakin, Maxwell Eakin, Maxwell Bock, Douglas Webber, Eugene Bordoloi, Bijoy Smith, Alyssa Sumner, Elizabeth Sumner, Elizabeth Becker, Robert Jones, Quincey	Registered Nurse General Practitioner Surgeon-General General Practitioner Radiologist Radiologist Radiology Technologist General Practitioner Surgeon-General Surgeon-Thoracic Surgeon-General	04-FEB-12 04-DEC-16 04-DEC-19 12-FEB-07 04-MAY-12 11-AUG-07 04-DEC-08 05-DEC-14 15-DEC-14 02-NOV-00 15-DEC-09
Employee Name	Specialty Name	Date Recived
Barlow, William Smith, Susan Klepper, Robert Zumwalt, Mary Quattromani, Toni Becker, Roberta Brockwell, Mary Ellen Simmons, Leslie Young, Yvonne Schultheis, Robert	Neurosurgeon Surgeon-General Oncologist Registered Nurse Cardiologist Surgeon-Abdominal Cavity Nurse-Practitioner Licensed Practicing Nurse Licensed Practicing Nurse General Practitioner	12-MAY-15 22-AUG-16 04-JAN-03 08-MAR-08 25-MAY-12 04-DEC-02 06-DEC-15 22-MAR-18 15-DEC-15 10-DEC-99

21 rows selected.

SQL> /* 21 Employees has received Specialties */ SQL>

SQL> /*Q.n.2.The hospital pharmacist would like a report listing patient first and last names (concatenated) who have been prescribed Valium. The result table should have just two columns, Patient Name and CommonName. Use relevant column headers and format commonName so it is 10 or fewer characters.*/

SQL> COLUMN "CommonName" FORMAT A10;
SQL> SELECT LastName||', '||FirstName "Patient Name", CommonName

- 2 FROM patient p JOIN Prescription pr ON (p.PatientID=pr.PatientID) JOIN Medicine m ON (pr.MedicineCode=m.MedicineCode)
 - 3 WHERE Commonname='Valium';

Patient Name	CommonName
Youngman, Yvonne	Valium
Zebulon, Zeb	Valium
Ridgeway, Ricardo	Valium

SQL> /* Patient Name who are Prescribed Valium */ SQL>

SQL> /*Q.n.3. The company's vice president for project management needs a listing of employees assigned to projects. The result table should list the LastName and FirstName column values (concatenated into one column) and their ProjectTitle and HoursWorked (from the projectAssignment table). The result table should only list employees assigned to a project that have worked on the project more than 10 hours. Sort results by employee last name and then by project number. Use alias names for the table names. Give each column an appropriate column name. HoursWorked has a decimal */SQL> COLUMN "Hours Worked" FORMAT 99.9;

SQL> SELECT LastName||', '||FirstName "Employee Name", ProjectTitle "Project Title", HoursWorked "Hours Worked"

- 2 FROM Employee e JOIN ProjectAssignment pa ON (e.EmployeeID=pa.EmployeeID) JOIN Project p ON (pa.ProjectNumber=p.ProjectNumber)
 - 3 WHERE HoursWorked >10
 - 4 ORDER BY LastName, p.ProjectNumber;

Employee Name	Project Title	Hours Worked
Adams, Adam Bock, Douglas Bordoloi, Bijoy Brockwell, Mary Ellen Eakin, Maxwell Eakin, Maxwell Klepper, Robert Klepper, Robert Simmons, Lester Simmons, Lester	Child Care Center New MRI Installation Remodel ER Suite New Pediatric Monitors New Surgical Suite Remodel Surgical Suite New MRI Installation Remodel ER Suite Personnel Records Update New Pediatric Monitors	23.0 10.2 10.3 14.8 14.2 10.6 11.8 19.2 35.4
Simmons, Lester	Child Care Center	24.1
Employee Name	Project Title	Hours Worked
Smith, Alyssa Smith, Susan Thornton, Billy	New MRI Installation Remodel ER Suite Personnel Records Update	30.8 34.5 41.2

14 rows selected.

SQL> /*Displays table with employee name, their project title and hours worked*/ $\,$

SQL>

SQL> /* Q.n.4.Produce a query that will list all employee last names, employee gender, dependent names and dependent gender where the employee's have dependents of the same gender. Also list the dependent relationship. The columns needed in the result table are LastName, employee.Gender, dependent.Name, dependent.Gender, and RelationshipToEmployee. Use the employee and dependent tables. Use the FROM clause to join the tables. Use the column names and formats shown below. Sort the result table by LastName */

```
SQL> COLUMN "Employee" FORMAT A10;
```

SQL> COLUMN "Emp Gender" FORMAT A10;

SQL> COLUMN "Dependent" FORMAT A10;

SQL> COLUMN "Dep Gender" FORMAT A10;

SQL> COLUMN "Relationship" FORMAT A12;

SQL> SELECT LastName "Employee", employee.Gender "Emp Gender", ependent.Name "Dependent", dependent.Gender "Dep Gender",

SQL> SELECT LastName "Employee", employee.Gender "Emp Gender", dependent.Name "Dependent", dependent.Gender "Dep Gender", RelationshipToEmployee "Relationship"

- 2 FROM employee JOIN dependent ON (employee.EmployeeID=dependent.EmployeeID)
 - 3 WHERE employee.Gender=dependent.Gender
 - 4 ORDER BY LastName;

Employee	Emp	Gender	Dependent	Dep	Gender	Relationship
Bock	M		Jeffery	M		SON
Simmons	M		Andrew	M		SON

SQL> /* Displays table with infromation of employee, Dependent their relation and Gender*/ SOL>

SQL> Q.n.5. The director of Pediatric Nursing requires a report listing each patient name, their bedNumber and their roomNumber for pediatric patients only. You will need to figure out how to determine which rooms are for pediatric patients and there is more than one way to do this. The result tale should display the patient's first and last names concatenated, their bednumber, and roomnumber. Assign appropriate column headers and format so the columns fit on a single line */

SP2-0734: unknown command beginning "Q.n.5.The ..." - rest of line ignored. SQL> /*Q.n.5.The director of Pediatric Nursing requires a report listing each patient name, their bedNumber and their roomNumber for pediatric patients only. You will need to figure out how to determine which rooms are for pediatric patients and there is more than one way to do this. The result tale should display the patient's first and last names concatenated, their bednumber, and roomnumber. Assign appropriate column headers and format so the columns fit on a single line */

SQL> COLUMN "Patient Name" FORMAT A20;

SQL> SELECT p.FirstName||' '||p.LastName "Patient Name", bedNumber "Bed Number", roomNumber "Room Number"

- 2 FROM Patient p JOIN Bed b
- 3 ON (p.bedNo = b.bedNumber) JOIN Prescription pr
- 4 ON (pr.patientID = p.patientID) JOIN Employee e
- 5 ON (pr.employeeID = e.employeeID) JOIN Department d
- 6 ON (e.departmentNumber = d.departmentNumber)
- 7 WHERE departmentName = 'Pediatrics-Gynecology';

Patient Name	Bed Number	Room N
Freddy Fender	70	RE0001
Zeb Zebulon	52	ER0001
Arthur Ashcroft	53	ER0001

SQL> /* Name and bed number and room no. of the patient in Pediatric */SQL>

SQL> /*Q.n.6. Management is expecting to start several new projects in the near future. A list of employees who are not currently assigned to a project is needed. This will provide management with a list of employees who are potentially available to be assigned to projects. The result table should list the LastName and FirstName column values (concatenated into one column) from the employee table. Sort the output by LastName and FirstName. Hint: You will need an OUTER join */

SQL> SELECT LastName||', '||FirstName "Employee Name"

- 2 FROM Employee e LEFT OUTER JOIN ProjectAssignment pa ON (e.EmployeeID=pa.EmployeeID) LEFT OUTER JOIN Project p ON (pa.ProjectNumber=p.ProjectNumber)
 - 3 WHERE pa.Projectnumber IS NULL
 - 4 ORDER BY e.LastName, e.FirstName;

Employee Name

Barlow, William
Becker, Robert
Becker, Roberta
Boudreaux, Betty
Boudreaux, Beverly
Clinton, William
Jones, Quincey
Schultheis, Robert
Simmons, Leslie
Sumner, Elizabeth
Webber, Eugene

Employee Name

Young, Yvonne Zumwalt, Mary

13 rows selected.

SQL> /* There are 13 employees $\,$ who are not assigned to any project currently */ SQL>

SQL> /*Q.n.7. The head of Facilities Management needs a list of all roomnumbers and the patients currently in each room. The result table should include ALL room numbers in the hospital. If a patient is currently in the room, their name should be shown in firstName lastName order and should be concatenated in a single column. This will allow the Facilities Management team to clean rooms that are currently unoccupied. SQL>

SQL> /;Q.n.7.The head of Facilities Management needs a list of all roomnumbers and the patients currently in each room. The result table should include ALL room numbers in the hospital. If a patient is currently in the room, their name should be shown in firstName lastName order and should be concatenated in a single column. This will allow the Facilities Management team to clean rooms that are currently unoccupied. SQL>

SQL> SELECT RoomNumber "Room Number", FirstName||' '||LastName "Patient Name"

SQL> SELECT RoomNumber "Room Number", FirstName||' '||LastName "Patient Name"

SQL> FROM Bed b LEFT OUTER JOIN Patient p ON (p.Bedno=b.BedNumber); SQL> /* Q.n.7. The head of Facilities Management needs a list of all roomnumbers and the patients currently in each room. The result table should include ALL room numbers in the hospital. If a patient is currently in the room, their name should be shown in firstName lastName order and should be concatenated in a single column. This will allow the Facilities Management team to clean rooms that are currently unoccupied.*/
SQL> SELECT RoomNumber "Room Number", FirstName||' '||LastName "Patient Name"

```
Room N Patient Name
_____
MSS001 Barbara Benton
MSS002
MSS003
MSS004 Rue Chen
MSS005
MSS006 David Davis
MSS010 Earnest Earnhardt
MSS010
MSS011
MSS011
MSS012 Frank Franken
Room N Patient Name
-----
MSS012
MSS013
MSS013 Gregory Grant
MSS014 Harold Harnett
MSS014 Ivy Iona
MSS015
MSS015 Juliet Juneau
MSN201
MSN202 Keith Kraut
MSN203 Mandy Monday
MSN204
Room N Patient Name
-----
MSN205 Linda Lima
MSN210
MSN210 Nancy Nunn
MSN211
MSN211 Opal Ophelia
MSN212
MSN212 Paul Pauley
MSN213 Quincy Quentin
MSN213
MSN214
MSN214 Ricardo Ridgeway
Room N Patient Name
_____
MSN215
MSN215 Samuel Santiago
ER0001 Yancey Young
ER0001
ER0001 Zeb Zebulon
ER0001 Arthur Ashcroft
ER0002
ER0002 Charlie Chang
ER0002 Darlene Davidson
ER0002
```

ER0002 Earlene Earnhardt

	Patient Name
ER0001 RE0001 RE0023	Billy Boudreaux
RE0023 RE0024	Gina Gentry
RE0031	Hank Henderson Ilama Ilama
RE0032	
RA0075 RA0075	Teresa Tempest
Room N	Patient Name
RA0076 RA0077	2
RA0077 RA0077	William Williams
RA0078	
SUR001 SUR002	
SUR003 SUR004	Mickey Mousseau
5W5001	Hickey Housseau
Room N	Patient Name
Room N	Patient Name
SW3002 SW3003	
SW3002 SW3003 SW3004 SW3005	
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006	Lillian Lakeside Oliver Overstreet Norman November
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006 SW3006	Lillian Lakeside Oliver Overstreet
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006 SW3006 SW3007	Lillian Lakeside Oliver Overstreet Norman November
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006 SW3006 SW3007 SW3007 SW3008	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt Quentin Queen
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006 SW3006 SW3007 SW3007 SW3008	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006 SW3006 SW3007 SW3007 SW3008 SW3008	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt Quentin Queen Sally Surrey Patient Name
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006 SW3007 SW3007 SW3007 SW3008 SW3008	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt Quentin Queen Sally Surrey Patient Name Thomas Teal
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006 SW3007 SW3007 SW3007 SW3008 SW3008	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt Quentin Queen Sally Surrey Patient Name
SW3002 SW3003 SW3004 SW3005 SW3006 SW3006 SW3007 SW3007 SW3008 SW3008 SW3008	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt Quentin Queen Sally Surrey Patient Name
SW3002 SW3003 SW3004 SW3005 SW3006 SW3006 SW3007 SW3007 SW3008 SW3008 SW3008	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt Quentin Queen Sally Surrey Patient Name Thomas Teal Vanna Vanquish Uley Uniform Yvonne Youngman
SW3002 SW3003 SW3004 SW3005 SW3006 SW3006 SW3007 SW3007 SW3008 SW3008 Room N CC1001 CC1011 CC1021 CC1031 CC1031 CC1051	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt Quentin Queen Sally Surrey Patient Name
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006 SW3007 SW3007 SW3008 SW3008 SW3008 CC1011 CC1011 CC1021 CC1031 CC1031 CC1031 CC1051 CC1061	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt Quentin Queen Sally Surrey Patient Name Thomas Teal Vanna Vanquish Uley Uniform Yvonne Youngman
SW3002 SW3003 SW3004 SW3005 SW3005 SW3006 SW3007 SW3007 SW3008 SW3008 CC1011 CC1011 CC1021 CC1031 CC1031 CC1031 CC1051 CC1061 PED101	Lillian Lakeside Oliver Overstreet Norman November Rudolph Pappa Renny Reinhardt Quentin Queen Sally Surrey Patient Name

Room N Patient Name
----PED105 Clyde Crawford
PED111
PED111
PED112 Danny Dunland
PED112 Ertha Ezzra
PED113
PED113 Filbert Funk
PED114
PED114 Gretchen Greathouse

97 rows selected.

SQL> /* formated table showing bed number and the patient name if occupied*/SQL>

SQL> /* Q.n.8.Produce a listing of number of employees who have earned each specialty. The result table should list the Specialty Name and number of employees who have earned the specialty. Give each column an appropriate column name and format Specialty Title to 30 characters */

SQL> COLUMN "Specialty Name" FORMAT A30;

SQL> SELECT s.Title "Specialty Name", Count(e.employeeID) "No. of Employees"

2 FROM Employee e JOIN EmployeeSpecialty es ON (e.EmployeeID=es.EmployeeID) JOIN Specialty s ON (es.SpecialtyID=s.SpecialtyID)

3 GROUP BY s.Title;

Specialty Name	No.	of	Employees
Cardiologist			1
General Practitioner			4
Nurse-Practitioner			1
Radiologist			2
Surgeon-Thoracic			1
Surgeon-Abdominal Cavity			1
Licensed Practicing Nurse			2
Radiology Technologist			1
Registered Nurse			2
Neurosurgeon			1
Oncologist			1
Specialty Name	No.	of	Employees

12 rows selected.

Surgeon-General

SQL> /*Displays table showing count of employee who have particular type of specialty */ $\,$

SOL>

SQL> /*Q.n.9.Produce a listing with the number (count) of employees assigned to each project within each department. The result table should list the DepartmentName, ProjectTitle and number of employees. Give each column an appropriate column name. Use either the WHERE or the FROM clause to join the tables. This query is a little tricky – because you have two attributes on the SELECT line along with the aggregate, your GROUP BY statement will also need attributes */

SQL> SELECT DepartmentName "Department Name", ProjectTitle "Project Title", count(e.employeeID) "No. of Employees"

- 2 FROM Employee e JOIN Department d ON (e.DepartmentNumber=d.DepartmentNumber) JOIN Project p ON (d.DepartmentNumber=p.DepartmentNumber)
 - 3 GROUP BY p.ProjectTitle, d.DepartmentName;

Department Name	Project Title	No.	of	Employees
Admin/Labs	Personnel Records Update			5
Emergency-Surgical	Remodel ER Suite			5
Pediatrics-Gynecology	New Pediatric Monitors			4
Pediatrics-Gynecology	Child Care Center			4
Medical Surgical Ward 1	New Surgical Suite			2
Medical Surgical Ward 1	Remodel Surgical Suite			2
Radiology	New MRI Installation			3
Emergency-Surgical	Add Crash Cart Equipment			5

8 rows selected.

SQL> /*Displays table showing no. of employee assigned to each project within each department*/ $\ensuremath{\text{SQL}}\xspace>$

SQL> /*Q.n.10.Produce a listing of the number of patients treated and the total service charges ChargeAmount) received by each doctor (Title includes 'M.D.'). The result table should have three columns: the LastName and FirstName concatenated into one column, number of patients, and the total service charges. Give each column an appropriate column name. Use either the WHERE or the FROM clause to join the tables. You must determine on your own which tables and columns are required to produce the result table */SQL> COLUMN "Doctor Name" FORMAT A20;

SQL> COLUMN "Total Service Charge" FORMAT \$99,999.99;
SQL> SELECT LastName | | ', ' | | FirstName "Doctor Name",
Count (t.PatientID) "Number of Patient", SUM(t.ChargeAmount) "To

Count(t.PatientID) "Number of Patient", SUM(t.ChargeAmount) "Total Service Charge"

- 2 FROM Employee e JOIN Treatment t on (e.EmployeeID=t.EmployeeID)
- 3 WHERE Title LIKE '%M.D.%'
- 4 GROUP BY e.LastName, e.FirstName;

Doctor Name	Number o	f Patient	Total	Service Charge
Becker, Robert		3		\$7,075.00
Becker, Roberta		4		\$15,455.00
Sumner, Elizabeth		8		\$7 , 495.40
Schultheis, Robert		12		\$1,295.55
Bock, Douglas		14		\$1,575.40
Eakin, Maxwell		13		\$1,668.00
Barlow, William		1		\$8,500.00
Webber, Eugene		2		\$650.00
Quattromani, Toni		2		\$195.00
Bordoloi, Bijoy		8		\$3,165.00
Klepper, Robert		11		\$1,110.00

11 rows selected.

SQL> /*Displays table showing doctor's name, number of patient he treated and service charege*/ $\,$

SQL>

SQL> /* Q.n.11. The payroll department needs to regularly access information about employee salary information. The DBA of the company has directed you to create a view based on the employee table named vwSalary. This view should include the employee identifying number, employee last and first names (LastName and FirstName), and the salary for each employee. Name the columns of the view as follows: EmpID, EmpLastName, EmpFirstName, and EmpSalary. Write the SQL code needed to create this view. Write a SELECT statement to display rows from the view for employees with salaries at or above \$20,000. Format all output appropriately.

SOL>

SQL> /*Q.n.11. The payroll department needs to regularly access information about employee salary information. The DBA of the company has directed you to create a view based on the employee table named vwSalary. This view should include the employee identifying number, employee last and first names (LastName and FirstName), and the salary for each employee. Name the columns of the view as follows: EmpID, EmpLastName, EmpFirstName, and EmpSalary. Write the SQL code needed to create this view. Write a SELECT statement to display rows from the view for employees with salaries at or above \$20,000. Format all output appropriately.*/

- SQL> /*Create view vwSalary*/
- SQL> COLUMN "EmpID" FORMAT A8;
- SQL> COLUMN "EmpLastName" FORMAT A15;
- SQL> COLUMN "EmpFirstName" FORMAT A15;
- SQL> COLUMN "EmpSalary" FORMAT \$999,999,999.99;
- SQL> CREATE VIEW vwSalary
 - 2 (EmpID, EmpLastName, EmpFirstName, EmpSalary) AS
 - 3 SELECT EmployeeID, LastName, FirstName, Salary
 - 4 FROM Employee;

View created.

SQL> /*access vwSalary*/
SOL> SELECT *

- 2 FROM vwSalary
- 3 WHERE EmpSalary>=20000;

EMPID	EMPLASTNAME	EMPFIRSTNAME	EMPSALARY
67555	Simmons	Lester	\$22,000.00
88101	Becker	Robert	\$23,545.00
88303	Jones	Quincey	\$30,550.00
88404	Barlow	William	\$27,500.00
88505	Smith	Susan	\$32,500.00
66425	Quattromani	Toni	\$22,325.00
88202	Becker	Roberta	\$23,000.00

7 rows selected.

SOL>

SQL> /*Q.n.12. The Company's senior project manager needs to access information about departments that manage projects for a specific set of projects, namely those located in either Maryville or Edwardsville. Create a view named vwDepartmentProjects that includes the DepartmentNumber and DepartmentName columns from the department table and the ProjectTitle and Location columns from the project table. The view should only reference

```
rows for projects that are located in either Maryville or Edwardsville. The
columns in the view should be named DeptNo, Department, Project, and
Location, respectively. Write a SELECT statement to display all of the rows
that are accessible through the view. Format the output columns of the
SELECT statement as A25 for Project and Department, and A15 for Location.*/
SQL> /*Creating a view named vwDepartmentProjects*/
SQL> COLUMN "Project" FORMAT A25;
SQL> COLUMN "Department" FORMAT A25;
SQL> COLUMN "Location" FORMAT A15;
SQL> CREATE VIEW vwDepartmentProjects
  2 (DeptNo, Department, Project, Location) AS
    SELECT d.DepartmentNumber, d.DepartmentName, p.ProjectTitle,
p.Location
  4 FROM Department d JOIN Project p ON
(d.DepartmentNumber=p.DepartmentNumber)
  5 WHERE Location IN ('Maryville', 'Edwardsville');
View created.
SQL> /*accessing vwDepartmentProjects*/
SOL> SELECT *
  2 FROM vwDepartmentProjects;
   DEPTNO DEPARTMENT
                                  PROJECT
                                                           LOCATION
2 Radiology
                                  New MRI Installation
                                                           Maryville
        3 Emergency-Surgical Add Crash Cart Equipment Edwardsville
3 Emergency-Surgical Remodel ER Suite Maryville
```

SOL>

SQL> /*Q.n.13.Create a view named vwProjectHours that will be used by the senior project manager to access information about work hours that have been reported for different projects. The view should join the project and projectAssignment tables. The view should have two columns; project title (not project number) and the average hours worked on each project. Name the columns Project and AverageHours in the view. (Hint: The rows in the view should be grouped by the project name). Write a SELECT statement against this view to display projects where the average hours is equal to or greater than 15. HINT: When creating the View you have renamed the average hours to AverageHours. This is the attribute you will reference in the query against the view.*/

Personnel Records Update Maryville

SQL> /*Creating a view named vwProjectHours*/

SQL> CREATE VIEW vwProjectHours

8 Admin/Labs

- 2 ("Project", "AverageHours") AS
- 3 SELECT ProjectTitle, Avg(Hoursworked)
- 4 FROM ProjectAssignment pa JOIN Project p ON

(pa.ProjectNumber=p.ProjectNumber)

- 5 GROUP BY ProjectTitle
- 6 HAVING Avg(Hoursworked)>=15;

View created.

SQL> /*accessing vwProjectHours*/ SOL> SELECT *

2 FROM vwProjectHours;

```
Project AverageHours
_____
Personnel Records Update 28.7
Remodel ER Suite 17.275
Remodel ER Suite
New MRI Installation
                             17.6
23.55
Child Care Center
SQL> CREATE VIEW vwProjectHours
  2 2 (Project, AverageHours) AS
  3 3 SELECT ProjectTitle, Avg(Hoursworked)
  4 4 FROM ProjectAssignment pa JOIN Project p ON
  5 (pa.ProjectNumber=p.ProjectNumber)
SQL> /* LET ME DROP THE EXISTING PROJECT */
SQL> CREATE VIEW vwProjectHours
  2 (Project, AverageHours) AS
  3 SELECT ProjectTitle, Avg(Hoursworked)
  4 FROM ProjectAssignment pa JOIN Project p ON
(pa.ProjectNumber=p.ProjectNumber)
  5 GROUP BY ProjectTitle;
CREATE VIEW vwProjectHours
ERROR at line 1:
ORA-00955: name is already used by an existing object
SQL> DROP VIEW vwProjectHours;
View dropped.
SQL> CREATE VIEW vwProjectHours
  2 (Project, AverageHours)AS
  3 SELECT ProjectTitle, Avg(Hoursworked)
  4 FROM ProjectAssignment pa JOIN Project p ON
(pa.ProjectNumber=p.ProjectNumber)
  5 GROUP BY ProjectTitle;
View created.
SQL> /*accessing vwProjectHours*/
SQL> SELECT Project
 2 FROM vwProjectHours
  3 WHERE AverageHours >=15;
PROJECT
Personnel Records Update
Remodel ER Suite
New MRI Installation
Child Care Center
SQL>
SQL> SPOOL OFF;
```

```
SQL> /*CLARA CHEROTICH CHELIBEI*/
SQL> /*LAB9-CHELIBEI*/
SQL> /*Q.n.Write a SQL*Plus program to produce a report that lists
dependents of employees. Your report should look like the one shown in
Figure 1. Your report needs to have the following characteristics: (3
points)
SOL> •
           Display the values shown in both top title and bottom title lines
including date and page number.
SQL> • Assign meaningful column names as shown.
SQL> •
           Display detail line data from the dependent table of the company
database.
         Order the detail lines by the EmployeeID column.
SQL> •
SOL>
SOL>
SQL> /Q.n.1.Write a SQL*Plus program to produce a report that lists
dependents of employees. Your report should look like the one shown in
Figure 1. Your report needs to have the following characteristics: •
     Display the values shown in both top title and bottom title lines
including date and page number. • Assign meaningful column names as shown. •
     Display detail line data from the dependent table of the company
database. • Order the detail lines by the EmployeeID column. */
SQL> --Program: Q.n.-1.sql
SQL> --Programmer:Clara Chelibei
SQL> --Description:Information about employee's Dependent
SQL>
SQL> TTITLE 'Dependent Information'
SQL> BTITLE SKIP 2 CENTER 'Not for external dissemination.'
SQL> SET LINESIZE 55
SQL> SET PAGESIZE 24
SQL> SET NWEPAGE 1
SP2-0158: unknown SET option "NWEPAGE"
SQL>
SQL> COLUMN "Emp ID" FORMAT A6;
SQL> COLUMN "Dependent" FORMAT A15;
SQL> COLUMN "Gender" FORMAT A6;
SQL> COLUMN "Date Birth" FORMAT A10;
SQL> COLUMN "Relationship" FORMAT A12;
SQL> SELECT EmployeeID "Emp ID", Name "Dependent", gender "Gender",
BirthDate "Date Birth", RelationshipToEmployee "Relationship"
  2 FROM Dependent
  3 ORDER BY EmployeeID;
Sat Jun 08
                                              page
                 Dependent Information
```

Emp ID	Dependent	Gender	Date Birth	Relationship
01885	Deanna	F	31-DEC-09	DAUGHTER
01885	Jeffery	M	01-JAN-08	SON
01885	Mary Ellen	F	05-MAY-76	SPOUSE
01885	Michelle	F	17-MAR-04	DAUGHTER
01885	Rachael	F	04-OCT-15	DAUGHTER
23100	Anita	F	06-JUL-14	DAUGHTER
23100	Mita	F	04-JUN-76	SPOUSE
23100	Monica	F	30-DEC-16	DAUGHTER
23100	Rita	F	11-MAY-18	DAUGHTER
33355	Allen	M	29-FEB-88	SPOUSE

```
67555 Andrew M 25-OCT-18 SON
67555 Jo Ellen F 05-APR-16 DAUGHTER
67555 Susan F 03-MAY-95 SPOUSE
```

13 rows selected.

```
SOL>
SQL> /*Q.n.2 Modify the program for question 1 to produce a control break
report like the one shown in Figure 2. Your report needs to have the
following additional characteristics • Display each EmployeeID column value
only once for each group of dependents belonging to each employee. • Use the
COUNT aggregate function to count the number of dependents and display this
count at the end of the report. */
SQL> --Program:Q.n.-2.sql
SQL> --Programmer:Clara Chelibei
SQL> --Description: Information about employee's Dependent
SOL>
SQL> TTITLE 'Dependent Information'
SQL> BTITLE SKIP 1 CENTER 'Not for external dissemination.'
SQL> SET LINESIZE 55
SOL> SET PAGESIZE 24
SOL> SET NWEPAGE 1
SP2-0158: unknown SET option "NWEPAGE"
SQL> COLUMN "Emp ID" FORMAT A6;
SQL> COLUMN "Dependent" FORMAT A15;
SQL> COLUMN "Gender" FORMAT A6;
SQL> COLUMN "Date Birth" FORMAT A10;
SQL> COLUMN "Relationship" FORMAT A12;
SOL>
SQL> CLEAR BREAK
breaks cleared
SQL> BREAK ON "Emp ID" SKIP 2 ON REPORT
SQL> COMPUTE COUNT OF "Emp ID" ON REPORT
SOL>
SQL> SELECT EmployeeID "Emp ID", Name "Dependent", gender "Gender",
BirthDate "Date Birth", RelationshipToEmployee "Relationship"
  2 FROM Dependent
  3 ORDER BY EmployeeID;
```

Sat Jun 08 page 1 Dependent Information

Emp ID Dependent Gender Date Birth Relationship O1885 Deanna F 31-DEC-09 DAUGHTER Jeffery M 01-JAN-08 SON Mary Ellen F 05-MAY-76 SPOUSE Michelle F 17-MAR-04 DAUGHTER Rachael F 04-OCT-15 DAUGHTER

23100	Anita Mita Monica Rita	F F F	06-JUL-14 04-JUN-76 30-DEC-16 11-MAY-18	SPOUSE DAUGHTER
33355	Allen	M	29-FEB-88	SPOUSE

Sat Jun 08 page 2

Dependent Information

Emp ID	Dependent	Gender	Date Birth	Relationship
67555	Andrew	M	25-OCT-18	SON
	Jo Ellen	F	05-APR-16	DAUGHTER
	Susan	F	03-MAY-95	SPOUSE

13

Not for external dissemination.

13 rows selected.

```
SOL>
```

SQL> /*Q.n.Write an SQL*Plus program that will use a view named vwEmpDep. This view should include columns from the employee and dependent tables as specified in Table 1. The program must produce a master-detail report like the one shown in Figure 3. Figure 3 shows pages 1 and 4 from the report. Pages 2 and 3 are intentionally deleted from the figure to reduce the size of the figure. Your report should display all pages of the report. Your report needs to have the following characteristics: • List each employee's name at the top of a new report page with a page number. • Break on the EmployeeID value. • Display the number of dependents per employee as a subtotal with the subtotal label shown in the figure.*/ SQL> --Program:Q.n.-3.sql

SQL> --Programmer:Clara Chelibei

SQL> --Description: Information about employee's Dependent

SQL> /*Work for first table*/

SQL> TTITLE CENTER 'Employee Name: 'EmployeeNameVar - RIGHT 'Page: ' FORMAT 99 sql.pno SKIP 2

SQL> BTITLE SKIP 1 CENTER 'Not for external dissemination.'

SOL> SET LINESIZE 65

```
SQL> SET PAGESIZE 15
SQL> SET NEWPAGE 1
SQL>
SQL> --create view
SQL> CREATE OR REPLACE VIEW vwEmpDep ( Employee, "Emp ID",
DependentName, gender, Relationship) AS
  2 SELECT e.Lastname||', '||e.Firstname, d.EmployeeID, d.Name, d.gender,
d.RelationshipToEmployee
  3 FROM Dependent d JOIN Employee e ON (e.employeeID=d.employeeID)
  4 ORDER BY -DependentName;
ORDER BY -DependentName
ERROR at line 4:
ORA-00904: "DEPENDENTNAME": invalid identifier
SQL> COLUMN Employee NEW VALUE EmployeeNameVar NOPRINT
SQL> COLUMN "Emp ID" FORMAT A20
SQL> COLUMN DependentName FORMAT A15
SQL> COLUMN gender FORMAT A6
SQL> COLUMN Relationship FORMAT A12
SQL> BREAK ON Employee ON "Emp ID" PAGE;
SQL> COMPUTE COUNT LABEL "Number of Dependents" OF Relationship ON "Emp ID"
SQL>
SQL> SELECT Employee, "Emp ID", DependentName, gender, Relationship
 2 FROM vwEmpDep
  3 ORDER BY "Emp ID" , relationship desc;
FROM vwEmpDep
ERROR at line 2:
ORA-00942: table or view does not exist
SQL> --Program:Q.n.-3.sql
SQL> --Programmer:Clara Chelibei
SQL> --Description: Information about employee's Dependent
SOL>
SQL> /*it works for the firt table*/
SQL> TTITLE CENTER 'Employee Name:' EmployeeNameVar-RIGHT 'Page:' 'FORMAT 99
sql.pno SKIP 2
string beginning "'FORMAT 99..." missing terminating quote (').
SQL> TTITLE CENTER 'Employee Name:' EmployeeNameVar-RIGHT 'Page:' FORMAT 99
sql.pno SKIP 2
SQL> BTITLE SKIP 1 CENTER 'Not for external dissemination.'
SQL> SET LINESIZE 65
SQL> SET PAGESIZE 15
SQL> SET NEWPAGE 1
SQL>
SQL> --create view
SQL> CREATE OR REPLACE VIEW vwEmpDep (Employee, "Emp
ID", DependentName, gender, Relationship) AS
  2 SELECT e.LastName||','||e.
     FirstName, d. EmployeeID, d. Name, d. gender, d. RelationshipToEmloyee
  3 FROM Dependent d JOIN Employee e ON (e.employeeID=d.employeeID)
  4 ORDER BY DependentName;
     ORDER BY DependentName
```

ERROR at line 4:

ORA-00904: "DEPENDENTNAME": invalid identifier

SQL> CREATE OR REPLACE VIEW vwEmpDep (Employee, "Emp ID", Dependent Name, gender, Relationship) AS

- 2 SELECT
- e.LastName||','||e.FirstName,d.EmployeeID,d.Name,d.gender,d.RelationshipToEm ployee
 - 3 FROM Dependent d JOIN Employee e ON (e.employeeID=d.employeeID)
 - 4 ORDER BY Dependent.Name;

ORDER BY Dependent.Name

ERROR at line 4:

ORA-00904: "DEPENDENT". "NAME": invalid identifier

SQL> CREATE OR REPLACE VIEW vwEmpDep (Employee, "Emp ID", DependentName, gender, Relationship) AS

- 2 SELECT
- e.LastName||','||e.FirstName,d.EmployeeID,d.Name,d.gender,d.RelationshipToEm ployee
 - 3 FROM Dependent d JOIN Employee e ON (e.employeeID=d.employeeID)
 - 4 ORDER BY d.Name;

View created.

- SQL> COLUMN Employee NEW VALUE EmployeeNameVar NOPRINT
- SQL> COLUMN "Emp ID" FORMAT A20
- SQL> COLUMN DependentName FORMAT A15
- SQL> COLUMN gender FORMAT A6
- SQL> COLUMN Relationship FORMAT A12
- SOL>
- SQL> BREAK ON Employee ON "Emp ID" PAGE;
- SQL> COMPUTE COUNT LABEL "Number of Dependents" OF Relationship ON "Emp ID" SQL>
- SQL> SELECT Employee, "Emp ID", DependentName, gender, Relationship
 - 2 FROM vwEmpDep
 - 3 ORDER BY "Emp ID" , relationship desc;

Employee Name:Bock, Douglas-RIGHTPage: 1

Emp ID	DEPENDENTNAME	GENDER	RELATIONSH	ΙP
01885	Mary Ellen	F	SPOUSE	
	Jeffery	M	SON	
	Rachael	F	DAUGHTER	
	Michelle	F	DAUGHTER	
	Deanna	F	DAUGHTER	

Number of Dependents				5

Number of Dependents

Not for external dissemination.

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHIP
23100	Mita	F	SPOUSE
	Rita	F	DAUGHTER
	Monica	F	DAUGHTER
	Anita	F	DAUGHTER

Number of Dependents			4

Employee Name:Boudreaux,Beverly-RIGHTPage: 3

Emp	ID	DEPENDENTNAME	GENDER	RELATIONSHIP
3335	55	Allen	M	SPOUSE
***	******			
Numb	er of Dependents			1

Not for external dissemination.

Employee Name: Simmons, Lester-RIGHTPage: 4

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHI	ΙP
67555	Susan Andrew Jo Ellen	F M F	SPOUSE SON DAUGHTER	
*****	OO EITEH	Г	DAUGHIEK	
Number of Dependents				3

Not for external dissemination.

13 rows selected.

SQL> SELECT Employee, "Emp ID", DependentName, gender, Relationship

2 FROM vwEmpDep

3 ORDER BY "Emp ID" , relationship;

Employee Name:Bock, Douglas-RIGHTPage: 1

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHIP
01885	Rachael Michelle	F F	DAUGHTER DAUGHTER
	Deanna	F	DAUGHTER

	Jeffery	M	SON
	Mary Ellen	F	SPOUSE

Number of Dependents			5

Employee Name:Bordoloi,Bijoy-RIGHTPage: 2

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHIP
23100	Rita	 F	DAUGHTER
	Monica Anita	F F	DAUGHTER DAUGHTER
	Mita	F	SPOUSE

Number of Dependents			4

Not for external dissemination.

Employee Name:Boudreaux, Beverly-RIGHTPage: 3

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHIP
33355	Allen	M	SPOUSE
Number of Dependents			1

Not for external dissemination.

Employee Name:Simmons,Lester-RIGHTPage: 4

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHIE	>
67555	Jo Ellen Andrew Susan	F M F	DAUGHTER SON SPOUSE	-
******				-
Number of Dependents				3

Not for external dissemination.

13 rows selected.

SQL> SELECT Employee, "Emp ID", DependentName, gender, Relationship
2 FROM vwEmpDep

3 ORDER BY "Emp ID" , relationship ASC;

Employee Name:Bock, Douglas-RIGHTPage: 1

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHIP
01885	Rachael	F	DAUGHTER
	Michelle	F	DAUGHTER
	Deanna	F	DAUGHTER
	Jeffery	M	SON
	Mary Ellen	F	SPOUSE

Number of Dependents			5

Not for external dissemination.

Employee Name:Bordoloi,Bijoy-RIGHTPage: 2

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHIP
23100	Rita	F	DAUGHTER
	Monica	F	DAUGHTER
	Anita	F	DAUGHTER
	Mita	F	SPOUSE

Number of Dependents			4

Not for external dissemination.

Employee Name:Boudreaux, Beverly-RIGHTPage: 3

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHIP
33355 ********	Allen	М	SPOUSE
Number of Dependents			1

Not for external dissemination.

Employee Name:Simmons,Lester-RIGHTPage: 4

Emp ID	DEPENDENTNAME	GENDER	RELATIONSHI	ΙΡ
67555	Jo Ellen Andrew Susan	F M F	DAUGHTER SON SPOUSE	

Number of Dependents				3

13 rows selected.

SQL> /*Well professor i have tried all possible ways of arrangement for the table to look exactly like yours but its not displaying exact ordereing. Hopefully the ordering doesnt matter.*/
SQL>
SQL> SPOOL OFF;

```
SQL> /*CLARA CHEROTICH CHELIBEI*/
SQL> /*LAB10-CHELIBEI*/
SQL> /*Q.n.1.1. Management requires a listing of employees by last name,
first name, and middle initial for department number 8. The last name
should be displayed in all capital letters. The entire name should be
concatenated together so as to display in a single field with a column
heading of "Employee Name." The rows should be sorted by employee last
name, then employee first name. */
SQL> COLUMN "Employee Name" FORMAT A22;
SQL> SELECT FirstName ||' '|| SUBSTR(MiddleName, 1,1) ||' '||
UPPER(LastName) "Employee Name"
 2 FROM Employee
 3 WHERE DepartmentNumber=8
  4 ORDER BY LastName, FirstName;
Employee Name
_____
Adam A ADAMS
Beverly B BOUDREAUX
William W CLINTON
Lester L SIMMONS
Billy B THORNTON
SQL>
SQL> /*Q.n.2.2. Write a query that displays the department name and the
length in number of characters of each department's name. Use the
department table. Label the column headings appropriately. */
SQL> COLUMN "Dept. Name" FORMAT A26;
SQL> COLUMN "Length" FORMAT 999999;
SQL> SELECT DepartmentName "Dept. Name", LENGTH(DepartmentName) "Length"
 2 FROM Department;
Dept. Name
                          Length
______
Medical Surgical Ward 1 23
Radiology
                              18
Emergency-Surgical
                              13
Oncology Ward
Critical Care-Cardiology
                             24
Pediatrics-Gynecology
                             21
                              19
Pharmacy Department
Admin/Labs
                              10
OutPatient Clinic
                              17
9 rows selected.
SQL> /* 9 rows of Department names are displayed.*/
SOL>
SQL> /*Q.n.3.3. Management wants a listing of department numbers and names
(use the department table)-display the output as a single column with the
heading "Department Information" - convert the DepartmentNumber column to
character data as part of the query. */
SQL> COLUMN "Department Information" FORMAT A32;
SQL> SELECT To CHAR(DepartmentNumber, '999')||' '|| DepartmentName
"Department Information"
 2 FROM Department;
```

Thor 6129

```
______
   1. Medical Surgical Ward 1
   2. Radiology
   3. Emergency-Surgical
   4. Oncology Ward
   5. Critical Care-Cardiology
   6. Pediatrics-Gynecology
   7. Pharmacy Department
   8. Admin/Labs
   9. OutPatient Clinic
10.rows selected.
SQL> /* 9 rows of department information are displayed.*/
SQL>
SQL> /*Q.n.4.
               Write a query that displays the first four characters of
each employee's last name and the last four digits of each employee's SSN
for department 8. Label the column headings "Name" and "SSN." Order the
result table rows by employee last name. */
SQL> COLUMN "Name" FORMAT A5;
SQL> COLUMN "SSN" FORMAT A5;
SQL> SELECT SUBSTR(LastName, 1,4) "Name", SUBSTR(SSN,6) "SSN"
 11.FROM Employee
  12.WHERE DepartmentNumber=8
 13. ORDER BY LastName;
Name SSN
_____
Adam 3287
Boud 6222
Clin 0233
Simm 9642
Thor 6129
SOL> \
SP2-0042: unknown command "\" - rest of line ignored.
SQL>
SQL> /*Q.n.4.
               Write a query that displays the first four characters of
each employee's last name and the last four digits of each employee's SSN
for department 8. Label the column headings "Name" and "SSN." Order the
result table rows by employee last name. */
SQL> COLUMN "Name" FORMAT A5;
SQL> COLUMN "SSN" FORMAT A5;
SQL> SELECT SUBSTR(LastName, 1,4) "Name", SUBSTR(SSN,6) "SSN"
  14.FROM Employee
  15.WHERE DepartmentNumber=8
 16.ORDER BY LastName;
Name SSN
-----
Adam 3287
Boud 6222
Clin 0233
Simm 9642
```

```
SQL> /*Q.n.

SQL> 5. Write a query that displays all employee names as well as their work phone. Format their workphone to 999-999-9999.

SQL>

SQL>

SQL> /*Q.n.5. Write a query that displays all employee names as well as their work phone. Format their workphone to 999-999-9999.*/

SQL> COLUMN "Employee Name" FORMAT A25;

SQL> COLUMN "Phone No." FORMAT A18;

SQL> SELECT LastName ||','|| FirstName "Employee Name",

SUBSTR(WorkPhone,1,3)||'-'||SUBSTR(WorkPhone,4,3)||'-

'||SUBSTR(WorkPhone,7,4) "Phone No."

17.FROM Employee;
```

Employee Name	Phone No.
Simmons, Lester Boudreaux, Beverly Adams, Adam Thornton, Billy Clinton, William Eakin, Maxwell Bock, Douglas Webber, Eugene Bordoloi, Bijoy Smith, Alyssa Sumner, Elizabeth	100-555-9401 100-555-8287 100-555-8287 100-555-8287 100-555-8287 100-555-9268 100-555-9268 100-555-9270 100-555-9270 100-555-9271
Employee Name	Phone No.
Becker, Robert Jones, Quincey Barlow, William Smith, Susan Klepper, Robert Zumwalt, Mary Quattromani, Toni Becker, Roberta Brockwell, Mary Ellen Simmons, Leslie Young, Yvonne	100-555-9284 100-555-9284 100-555-9284 100-555-9284 100-555-9268 100-555-9401 100-555-9280 100-555-9284 100-555-9401 100-555-9401 100-555-9401
Employee Name	Phone No.
Boudreaux, Betty Schultheis, Robert	100-555-8287 100-555-9284

24 rows selected.

 $\mbox{SQL}\mbox{}/\mbox{}^*\mbox{All}$ the employees names are displayed with their work phone number*/ $\mbox{SQL}\mbox{}>$

SQL> /*Q.n.6. Write a query to display a listing of employee last names and the EmployeeID of each employee's supervisor for the employees working in department 8. If the employee has no supervisor, display the message "Top Supervisor." Provide appropriate headings. Sort the result table by employee last name. */

```
SQL> COLUMN "Emp Last Name" FORMAT A14;
SQL> COLUMN "EmployeeID" FORMAT A18;
SQL> SELECT LastName "Emp Last Name", DECODE(SupervisorID, NULL, 'Top
Supervisor' , EmployeeID'
  18.FROM Employee
  19.WHERE DepartmentNumber=8
  20. ORDER BY lastName;
Emp Last Name EmployeeID
______
Adams 33344
Boudreaux 33355
Clinton 33359
Simmons Top Supervisor
Thornton 33358
SQL> /*If supervisorID is misspelled*/
SQL> COLUMN "Emp Last Name" FORMAT A14;
SQL> COLUMN "SupervisorID" FORMAT A18;
SQL> SELECT LastName "Emp Last Name", NVL(SupervisorID, 'Top Supervisor')
"SupervisorID"
  21.FROM Employee
  22.WHERE DepartmentNumber=8
  23. ORDER BY LastName;
Emp Last Name SupervisorID
-----
Adams 33355
Boudreaux 67555
Clinton 33355
Simmons Top Si
Simmons
             Top Supervisor
Thornton
             33355
SOL>
SQL> /*Q.n.7. Develop a listing for the company's senior project manager
that lists employees that reported working between 15 and 25 hours
(inclusive) on assigned projects. List the employee last name, project
number, and hours worked. Use the ABS function. Do NOT use the BETWEEN
operator or any logical operator. Join the tables by use of the FROM
clause. Use meaningful column headings. Sort the rows of the result table
by employee last name. HINT: 20 is the midpoint between 15 and 25 hours,
the absolute value of the difference would be 5 hours. */
SQL> COLUMN "Emp Last Name" FORMAT A14;
SQL> COLUMN "Project No." FORMAT 99;
SQL> COLUMN "Hours worked" FORMAT 99.9;
SQL> SELECT LastName "Emp Last Name", ProjectNumber "Project No.",
HoursWorked "Hours worked"
  24.FROM Employee e JOIN ProjectAssignment pa ON
     (e.employeeid=pa.employeeid)
  25.WHERE ABS(HoursWorked -20) <=5
  26.ORDER BY LastName;
Emp Last Name Project No. Hours worked
-----
                       8
                       4
                                 19.2
Klepper
Simmons
                        8
                                  24.1
```

```
SQL>
```

SQL> /*Q.n.8. The senior project manager needs a listing by employee last name, project number, and hours worked (HoursWorked column) rounded to the nearest integer value for projects 3 and 8. Join the tables by use of the FROM clause. Sort the result table by employee last name within project number. Use meaningful column names. */

SQL> COLUMN "Emp Last Name" FORMAT A14;

SQL> COLUMN "Project No." FORMAT 99;

SQL> SELECT LastName "Emp Last Name", ProjectNumber "Project No.", ROUND(HoursWorked,0)

- 27.FROM Employee e JOIN ProjectAssignment pa ON (e.employeeid=pa.employeeid)
- 28.WHERE ProjectNumber IN (3,8)
- 29. ORDER BY ProjectNumber, LastName;

Emp Last Name	Project No.	ROUND (HOURSWORKED, 0)
Bock	3	10
Klepper	3	12
Smith	3	31
Adams	8	23
Eakin	8	
Simmons	8	24

30.rows selected.

SQL> /*6 rows are selected*/

SQL>

SQL> /*Q.n.9. Write a query to display information about female dependents for the human resources manager. Display each dependent's name, gender, and date of birth. The date of birth should be displayed as: Month Name (spelled out), two-digit day, and four-digit year (e.g., December 05, 1970). Use the COLUMN commands shown here to format the first two columns of output. */

SQL> COLUMN "Gender" Format A6;

SQL> COLUMN "Dep Name" FORMAT A15;

SQL> SELECT Name "Dep Name", Gender "Gender", TO_CHAR(BirthDate, 'Month DD, YYYY') "Date of Birth"

31.FROM Dependent

32.WHERE Gender='F';

Dep Name	Gender	Date of Birth		
Jo Ellen	F	April	05,2016	
Susan	F	May	03,1995	
Deanna	F	December	31,2009	
Rachael	F	October	04,2015	
Michelle	F	March	17,2004	
Mary Ellen	F	May	05,1976	
Mita	F	June	04,1976	
Anita	F	July	06,2014	
Monica	F	December	30,2016	
Rita	F	May	11,2018	

33. rows selected.

SQL> /*10 rows of females are displayed*/ SOL> SQL> /*Q.n.10. Write a query to display each dependent's name, date of birth, and date on which the dependent turned or will turn 65 years of age, but only for dependents born after January 1, 1980. Use meaningful column names. Display each date using the DD-MON-YYYY format. Use the ADD MONTHS, TO CHAR, and TO DATE functions. Hint: 65 years equals 780 months. */ SQL> SELECT Name "Dep Name", TO CHAR (BirthDate, 'DD-MON-YYYY') "Date of SELECT Name "Dep Name", TO CHAR BirthDate, 'DD-MON-YYYY') "Date of Birthday" 34.FROM Dependent 35.WHERE BirthDate > TO DATE('01-JAN-1980', 'DD-MON-YYYY'); ORA-01740: missing double quote in identifier SQL> SELECT Name "De Name", TO CHAR(BirthDate, 'DD-MON-YYYY') "Date of Birth" TO CHAR (ADD MONTHS (BirthDate, 780), 'DD-MON-YYYY' "65th BirthDay" 36.FROM Dependent 37.WHERE BirthDate>TO DATE('01-JAN-1980','DD-MON-YYYY'); SELECT Name "De Name", TO CHAR (BirthDate, 'DD-MON-YYYY') "Date of Birth" TO CHAR (ADD MONTHS (BirthDate, 780), 'DD-MON-YYYY' "65th BirthDay" ERROR at line 1: ORA-00923: FROM keyword not found where expected SQL> SELECT Name "Dep Name", TO CHAR (BirthDate, 'DD-MON-YYYY') "Date of Birth" TO CHAR (ADD MONTHS (BirthDate, 780), 'DD-MON-YYYY' "65th BirthDay" 38.FROM Dependent 39.WHERE BirthDate>TO DATE('01-JAN-1980','DD-MON-YYYY'); SELECT Name "Dep Name", TO CHAR(BirthDate, 'DD-MON-YYYY') "Date of Birth" TO CHAR (ADD MONTHS (BirthDate, 780), 'DD-MON-YYYY' "65th BirthDay" ERROR at line 1: ORA-00923: FROM keyword not found where expected

SQL> SELECT Name "Dep Name", TO_CHAR(BirthDate, 'DD-MON-YYYY') "Date of Birth", TO_CHAR(ADD_MONTHS(BirthDate, 780), 'DD-MON-YYYY') "65th BirthDay" 40.FROM Dependent

41.WHERE BirthDate > TO DATE('01-JAN-1980', 'DD-MON-YYYY');

Date of Birth	65th BirthDay
05-APR-2016	05-APR-2081
25-OCT-2018	25-OCT-2083
03-MAY-1995	03-MAY-2060
29-FEB-1988	28-FEB-2053
01-JAN-2008	01-JAN-2073
31-DEC-2009	31-DEC-2074
04-OCT-2015	04-OCT-2080
17-MAR-2004	17-MAR-2069
06-JUL-2014	06-JUL-2079
30-DEC-2016	30-DEC-2081
11-MAY-2018	11-MAY-2083
	05-APR-2016 25-OCT-2018 03-MAY-1995 29-FEB-1988 01-JAN-2008 31-DEC-2009 04-OCT-2015 17-MAR-2004 06-JUL-2014 30-DEC-2016

```
SQL> /* 11 rows of dependent names are selected.*/
SQL>
SQL> /*Q.n.11. Write a short query to display the current day of the week
spelled out, for example Monday or Wednesday. The value should be obtained
from the operating system internal date.*/
SQL> SELECT TO CHAR(SYSDATE, 'DAY') "Current Day"
  43.FROM Dual;
Current Day
_____
SATURDAY
SOL>
SQL> /*Q.n.12. The human resources manager needs a listing of dependents
including their name and gender, but only for dependents that are spouses.
Instead of displaying the coded values for gender, the result table must
display the terms "Male" and "Female," as appropriate. Use meaningful
column headings. Sort the result table by dependent name. */
SQL> SELECT Name "Dep Name", DECODE(Gender, 'M', 'Male', 'Female') "Gender"
  44.FROM Dependent
  45.WHERE RelationshipToEmployee='SPOUSE'
  46.ORDER BY Name;
Dep Name
         Gender
Allen Male
Mary Ellen Female
              Female
Mita
        Female
Susan
SOL>
SQL> /*Q.n.13. Write a query to display a listing of employee last names,
title, and salary for employees with a title of either 'Building Custodian'
or 'L.P.N.'. If the employee is paid a wage, the salary will be NULL. In
this situation, display the value $0.00. Provide appropriate headings.
Sort the result table by staff member last name. */
SQL> COLUMN "Salary" FORMAT $999,990.99; --tailing term is equal to zero
SP2-0246: Illegal FORMAT string "$999,990.99;"
SQL> COLUMN "Emp Last Name" FORMAT A15;
SQL> SELECT LastName "Emp Last Name", Title, NVL(Salary, '0.00') "Salary"
  47.FROM Employee
  48. WHERE Title LIKE '%Building Custodian%' OR Title LIKE '%L.P.N%'
  49. ORDER BY LastName;
Emp Last Name TITLE
Salary
Clinton
              Building Custodian
Simmons
         L.P.N.
2200
Thornton Building Custodian
Young
              L.P.N.
```

2200

```
SQL> /*Alternaqtively as */
SQL> COLUMN "Emp Last Name" FORMAT A15;
SQL> COLUMN "Salary" FORMAT $99,999.99;
SQL> COLUMN "Title" FORMAT A20;
SQL> SELECT LastName "Emp Last Name", Title "Title", DECODE(TO_CHAR(Salary, '$9,999'), NULL, '$0.00', TO_CHAR(Salary, '$9,999.99')) "Salary"
50.FROM Employee
51.WHERE Title LIKE '%Building Custodian%' OR Title LIKE '%L.P.N%'
52.ORDER BY LastName;
```

Emp Last Name	Title	Salary
Clinton	Building Custodian	\$0.00
Simmons	L.P.N.	\$2,200.00
Thornton	Building Custodian	\$0.00
Young	L.P.N.	\$2,200.00

SQL>

SQL> /*Q.n.14. Write a query to compare treatment charges to standard service charges. Display the ServiceID and StandardCharge columns from the service table, and the ChargeAmount column from the treatment table. Only display the value if the difference between the service and actual charge is more than \$50.00 in difference (either high or low). Also display a computed column that is the difference between the service and actual charge (as a positive number). Use appropriate column sizes and headings. Join the tables by use of the FROM clause. */

SQL> COLUMN "Service ID"FORMAT A12;

SQL> COLUMN "Service Charge" FORMAT \$999,999.99;

SQL> COLUMN "Treatment Charge" FORMAT \$99,999.99;

SQL> COLUMN "Difference" FORMAT \$999,999.99;

SQL> SELECT s.ServiceID "Service ID", s.StandardCharge "Service Charge",
t.ChargeAmount "Treatment Charge", ABS(StandardCharge - ChargeAmount)
"Difference"

53.FROM Service s JOIN Treatment t ON (s.serviceID=t.serviceID)

54.WHERE ABS(s.StandardCharge - t.ChargeAmount) > 50;

Service	ID	Service Char	ge Treatment	Charge	Difference
12001		\$6,200.0	00	\$450.00	\$5,750.00
12007		\$10,000.0	00 \$8	,500.00	\$1,500.00
12010		\$3,500.0	00 \$1	,480.00	\$2,020.00
99058		\$155.0	00	\$435.00	\$280.00

SOL>

SQL> /*Q.n.15. Modify the query for question 14 to display any rows where there is any difference between the service and actual charge, but only where the actual charge is less than the service charge. Order the output by differences from largest to smallest.*/

SQL> COLUMN "Service ID"FORMAT A12;

SQL> COLUMN "Service Charge" FORMAT \$999,999.99;

SQL> COLUMN "Actual Charge" FORMAT \$999,999.99;

SQL> COLUMN "Difference" FORMAT \$999,999.99;

SQL> SELECT s.ServiceID "Service ID", s.StandardCharge "Service Charge",
t.ChargeAmount "Actual Charge", ABS(StandardCharge - ChargeAmount)
"Difference"

55.FROM Service s JOIN Treatment t ON (s.serviceID=t.serviceID)

56.WHERE ChargeAmount<StandardCharge
57.ORDER BY ABS(StandardCharge - ChargeAmount) DESC;

Service ID	Service Charge	Actual Charge	Difference
12001	\$6,200.00	\$450.00	\$5 , 750.00
12010	\$3,500.00	\$1,480.00	\$2,020.00
12007	\$10,000.00	\$8,500.00	\$1,500.00
99203	\$95.00	\$75.00	\$20.00
99203	\$95.00	\$75.00	\$20.00
99058	\$155.00	\$150.00	\$5.00
90782	\$75.00	\$70.00	\$5.00

58.rows selected.

SQL>

SQL> SPOOL OFF;