IBC233 Lab 6

**Lab objectives: Demonstrate understanding of keyword, mixed and positional notation with CLLE**

**Commands**

**Demonstrate an understanding of jobs and subsystems**

**Understand how data is represented on an IBMi midrange system**

**Lab Requirements:**

**Answer the questions and hand in this sheet. NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Start a Client Access Session.

1. Provide an example of the SNDMSG command sending a “HELLO” message that shows:

A. Keyword Notation

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B. Mixed Notation

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C. Positional Notation

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2. What is a job on the system?

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3. What is a job description?

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4. Investigate a job description.

Find the job description on Zeus that matches your userid. Answer the following questions:

|  |  |  |  |
| --- | --- | --- | --- |
| Userid Ends in | Job Description | Userid Ends in | Job Description |
| 0 | QBATCH | 5 | QEZDISKINF |
| 1 | QCTXFORM | 6 | QINTIJBD |
| 2 | QDFTSVR | 7 | QOFCBATCH |
| 3 | QEZBACKUP | 8 | QINTER |
| 4 | QSPLAFPW | 9 | QSPLDBR |

So if my userid is DA233A17, I would investigate QOFCBATCH.

What Job Queue does this job description use?

What output queue will this job description use?

What is the output priority for this job description?

What is the job queue priority for this job description?

What is the object text for this job description?

5. What is a subsystem?

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6. CHGJOBQE

The help for this command is available by pressing F1 for a command parameter. After you press F1 you can press F2 to get extended help on the entire command. The help explains the following example. What does the help say about:

CHGJOBQE SBSD(QGPL/NIGHTSBS) JOBQ(QGPL/NIGHT) MAXACT(3)

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7. A system intensive program takes a while to run. When you type CALL BIGPGM at the command line, your screen will freeze up for several minutes as the job runs. You can submit this job so it runs at a slower pace in the background. The advantage is your screen is not frozen while the job runs and you can do other work.

What is the command that will allow you to run a system intensive job in the background. Provide an example of this command being used with CALL BIGPGM.

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8. Provide 6 job/subsystem commands you can find on the system. Don’t repeat any commands already used above.

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9. Name 10 object types found on the system.

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What object types are only found in QSYS.

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10. The iSeries uses \_\_\_\_\_\_\_\_\_ code, PC’s use \_\_\_\_\_\_\_\_\_\_ code.

**. EXPLORE EBCDIC DATA REPRESENTATION**

**Data Representation**

Enter the following command on the appropriate screen

SELECT \* FROM IBC233LIB/DATAREP

You should see three fields and two records. One record has positive values and one has all negative values

F1 F2 F3

145.33 145.33 145.33

543.22- 543.22- -543.22

Press F9 to retrieve your statement and press F4. Place your cursor on the Select Columns line and press F4 again.

Check out how the field types are specified using the Show In Table feature in RDi

How are the field types indicated in both interfaces?

DB2 RDi

Field Type Field Type

F1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ F1 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

F2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ F2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

F3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ F3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Using Character, Zoned and Packed in the appropriate spot, type in the following SQL command:

SELECT HEX(F1) AS ZONED,

HEX(F2) AS PACKED,

HEX(F3) AS CHARACTER

FROM IBC233LIB/DATAREP

F1 F2 F3

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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You have indicated the EBCDIC representation of the numbers depending on the type of field used to store them.

RF1 is shorthand for 1111 0001 – an easier way to communicate the contents of a single byte

A packed field does not need to keep storing the zone portion of the byte “F” – until the last byte of storage.

If the field has a negative value, then a “D” is stored in the last byte of a packed or a zoned decimal field.

Packed fields save storage space and execute faster with numeric calculations. Packed fields are not always easily converted.

Too see an interface that does not immediately interpret a packed field, exit from SQL and type the following:

DSPPFM IBC233LIB/DATAREP

The zoned decimal F1 F4 F5 F3 F3 displays fine. The packed 14 53 3F does not display so easily. You need to press a function key to see what is stored in F2.

Referring back to the SELECT \* FROM IBC233LIB/DATAREP results and the Hex representations indicate the following

Zoned Packed Character

+1234567899 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-9876543219876 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the EBCDIC representation of the following in a character field:

Decimal point \_\_\_\_\_ Space \_\_\_\_\_\_ negative sign \_\_\_\_\_\_\_ positive sign \_\_\_\_\_\_\_

“ABCabcZz” \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

To determine the representation of the above letters, add a record to the end of your students file where the first name is ABCabcZz and then use SQL to figure out the appropriate codes.

How many bytes of storage are needed to store a seven digit number that is used to store dollars and cents in a

packed \_\_\_\_\_\_\_, zoned \_\_\_\_\_\_\_\_ and character \_\_\_\_\_\_\_\_\_\_ field.

Don’t forget to remove this record or your reports will have an incorrect record.

How do you remove it.

Command is ==>\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Function key when record is present is: \_\_\_\_\_\_\_\_\_\_