Index

A

access control to iSeries Navigator, xi-xiv, **xii**, **xiii**, **xiv**, 5
  file systems and, 66
Active Jobs option in Work Management, 50, **50**
Add Physical File Trigger (ADDPFTRG), 159, 162
Administrators and iSeries Navigator, xi-xiv
AFP Manager, x
APIs, 62
Application Development, x
ASCII vs. EDCDIC files, file systems, 72-73, 78, **78**
assigning folders to network drives, file systems, 81
Assist feature, SQL, prompting for new statements, 123-129, **123** -**129**
authorities, for iSeries Navigator use, xi-xiv, **xii**, **xiii**, **xiv**
Auto Refresh option, 14-15, **15**

B

Backup, x
Basic Operations, 19-20
  Jobs function in, 33-43, **34**. *See also* Jobs function
  Messages function in, 30-33, **30**. *See also* Messages function
  Printer Output function in, 20-30, **21**. *See also* Printer Output function
  Run Command in, 43-50, **44**. *See also* Run Command
break messages, 32

C

calculated column joins, 141
call stack for jobs, 37, **37**
cancelling requests, 17
casting, in Databases, 144
catalog views in SQL, 90-92, 90-91*t*
CCSID 65535 files, SQL translation, 132, **133**
CD-ROM installation, 318-319, **319**
Change Object Owner (CHGOBJOWN), 66
Change Object Primary Group (CHGOBJGP), 66
Change Physical File Trigger (CHGPFTRG), 167
Change Spool File Attributes (CHGSPLFA), 24-26, **25**
check constraints, 175-178, **176**, **177**, **178**, 268. *See also* referential integrity
CL commands and SQL, 119
Client Access, v
CODE, v, 70, 81
column definition using UDF, 206-207, **207**
column validation, 168, 268-269

columns in database, 94-97, **95**
derived, 150-154, 150-**154**, 268
Command Definitions, Management Central, 277-280, **277**-**280**
computer minimum requirements, viii
Configuration and Service, ix
configuring iSeries Navigator, 317-328
connection configuration, 324-328, **325**, **326**, **327**, **328**
constraints, 168-169, 245, **245**, 266, 268
Databases and, 97
context-sensitive help, 10, **10**
Copy from Import File (CPYFRMIMPF), 85
Copy from Stream File (CPYFRMSTMF), 84
Copy to Import File (CPYTOIMPF), 85
Copy to Stream File (CPYTOSTMF), 84
copy, cut and paste in file systems, 72-73, **73**, 81-82, 84-86
correlation names, triggers, 164
CREATE FUNCTION, 236
CREATE PROCEDURE, 236
CREATE VIEW statement, 147, **148**
cross joins, 141
cursor in results sets, stored procedures, 227, **227**
customizing the view, 14-15, **14**. *See also* views in databases
Messages function and, 33, **33**
Printer Output function and, 26-29

D

Data Definition Language (DDL), 87-88, 109-110, 135-136, 156
joins in, 140-144, 141*t*
pros and cons of, 265-271
views defined in, 137
Data Description Specifications (DDS), 87-88, 109, 110, 135-136, 156
joins in, 140
pros and cons of, 265-271
Data File Utility (DFU), 98-99
data types, in Databases, 96-97, 96-97*t*, 136-137
Database Navigator, 246-263, **246**
Database Relations, 244-245, **244**
Databases, vii, viii, ix, 87-107, **88**
advanced features in, 109-156
casting in, 144
catalog views in, 90-92, 90-91*t*
CL commands and SQL in, 119
column selection in, 105, 125, **125**
constraints in, 97, 168-169, 245, **245**, 266, 268. *See also* referential integrity
Data Definition Language (DDL) and, 87-88, 109-110, 135-136, 156, 265-271
Data Description Specifications (DDS) and, 156
Data Description Specifications (DDS) and, 87-88, 109, 110, 135-136, 265-271
Data File Utility (DFU) and, 98-99
Database Navigator for, 246-263, **246**
Database Relations for, 244-245, **244**
derived columns in, 150-154, 150-**154**, 268
Display Database Relationships (DSPDBR), 237, 234, **243**
Display File Description (DSPFD), 237, **238**-**243**
Distinct Types in, 136-137, **137**
editing contents of, 98-99, **98**
field reference files in, 135-136
filtering in, 127, **127**
formulas and functions in, 126, **126**, 146, **146**
functionality of, in iSeries Navigator, 266, **266**
GroupBy option for, 146-147, **147**
indexes in, 99-102, **99**, **101**, **102**, 269, 270
JDBC connection in, 130-131, **131**
joins in, 124, **124**, 140-144
conditions for, 144, **144**
properties of, 143, **143**
selecting tables for, 142, **142**
journals and journal receivers in schemas for, 90
mapping of, 246-263, **246**-**263**, 267
collapsing view of particular object in, 261
context menu for icons/items in, 256, **256**
creating new objects for, 258, **258**
expanding view of particular object in, 260-261, **260**, **261**
flyover help for, in Database Navigator map, 248, 256, **256**
generate SQL from, 257, **257**
hiding objects in, 262, **262**
list of, viewing, 263, **263**
moving icons/items in, 252
Overview Window for, 253, **253**
Relationship status window, 249, **249**
saving, 262, **262**
Schema Trees and Tables in map of, 248
selecting icons/items for, 250-251, **251**
style of, changing, 254-255, **254**, **255**
tables added to, 248, **249**
user defined relationships created in, 258-260, **259**, **260**
Zooming in and out of, 252, **252**

naming conventions and, using DDL vs. DDS, 131, **132**, 269-270
partitioning in, 97
referential integrity in, 157, 168-183. *See also* referential integrity
Related Objects shown for, 245, **245**
row selection in, 106, **106**, 154-156, **155**
schemas in, 89-93, **90**
display of, 92-93, **92**
Select Tables button for, 104, **105**
Show Related objects in, 267
sorting in, 128, **128**
SQL and, 87-88, 88-89, 89*t*, 109-118, 267
casting in, 144
CL commands and, 119
column selection in, 125, **125**
copying from result sets in, 122
CREATE VIEW statement in, 147, **148**
customizing Run SQL Scripts for, 129-133
DB2 UDB family option in, 112
DROP command in, 270
field reference files and, 136
filtering in, 127, **127**
Format statements for readability option in, 113
formulas and functions in, 126, **126**, 146, **146**
Generate labels option in, 113
Generate SQL option for, 110-113, **111**, **112**, 267
GroupBy option for, 146-147, **147**
HAVING CLAUSE in, 148
Include drop statements option in, 113
Include informational messages option in, 113
JDBC connection in, 130-131, **131**
joins in, 124, **124**
messages (error, completion) for run statements in, 121
Naming convention option in, 114
naming conventions in, 131, **132**
result sets from, 122, **122**
Run Scripts editor for, 115, **115**, 118-134, **119**
running statements and commands in, 119-120
sample database drop-down box in, 120-121, **120**
sample generated script for, 115-**116**, 117-**118**
sorting in, 128, **128**
SQL Assist feature, prompting for new statements in, 123-129, **123**-**129**
SQL Assist-generated statements in, 128-129, **129**
Start SQL (STRSQL) and, 118
translation of CCSID 65535 files in, 132, **133**
Visual Explain in, 133-134, **134**
WHERE clause in, 155
SQL Scripts for creation of, 329, 329-**339**
tables in, 93-99, 267
columns in, 94-97, **95**
constraints in, 97
creation of, 93, **93**, 269
data types used in, 96-97, 96-97*t*, 136-137
editing contents of, 98-99, **98**
indexes for, 100-101, **101**, **102**
joins in, 140-144
map generated from, 248, **249**
maximum size of, vs. physical files, 98
naming of, 93-94
Nullable and null capable columns in, 97, 270
partitioning in, 97
Select Tables button for, 104, **105**
triggers in, 157-167. *See also* triggers
views in, 102-107, 137-156, 270
changing, 107
CREATE VIEW statement in, 147, **148**
creating and naming, 103, **103**
defining, 104, **104**
derived columns in, 150-154, 150-**154**, 268
HAVING CLAUSE in, 148
joins in, 140-144, 141*t*
row selection in, 154-156, **155**
Select Tables button for, 104, **105**
selecting columns in, 105, 106, **106**
summary type, 144-149, **145**-**149**, 268
views of, multiple simultaneous, 137-140, **138**-**140**, 268
WHERE clause in, 155
Visual Explain in, 133-134, **134**
date conversion, user defined functions (UDF), 186-198, **187**, **188**-**189**
dependencies and relationships, Databases, 244-245, **244**
derived columns, 150-154, 150-**154**, 268
DHCP, vii
Display Database Relationships (DSPDBR), 237, 243, **243**
Display File Description (DSPFD), 237, **238**-**243**
Display File Field Definitions (DSPFFD), 135
Display Job (DSPJOB), 34
Display Message (DSPMSG), 30
Distinct Types, Databases, 136-137, **137**
distributed environments, stored procedures, calling of, 211-212, **212**
DNS, vii
DROP command, 270

E

EBCDIC vs. ASCII files, file systems, 72-73, 78, **78**
Edit Check Pending Constraints (EDTCPCST), 180-183, **180**, **181**, **182**, **183**
Edit File (EDTF), 70
Edit Object Authority (EDTOBJAUT), 66
endpoint systems, Management Central, 275-276, **275**
environments, 307-309, **308**, **309**
error trapping, 183
exception joins, 141
Explain SQL option, 66, **67**
  stored procedures and, 235, **236**
external user defined functions (UDF), 187-198, **190**
external procedures, 212-221. *See* stored procedures, external

F

5250 sessions
  GUI vs. green screen, vii-viii
  IFS file access from, 83-86, **84**
  iSeries Navigator vs., benefits and disadvantages of, 19
  Main Menu on, vi, **vi**
  Printer Output function and vs., 29-30
  QNTC files accessed from, 85-86, **85**
  triggers and, 159, 162
field reference files, Databases, 135-136
File menu, 15, **15**
file objects, 68-70, **68**
file systems, ix, 57-86. *See also* Integrated File System
  assigning folders to network drives in, 81
  context menu for library objects in, 63-66, **63**
  copy, cut and paste in, 72-73, **73**, 81-82, **82**, 84-86
  EBCDIC vs. ASCII files in, 72-73, 78, **78**
  Edit option in, 69-70, **69**, **70**
  Explain SQL option in, 66, **67**
  file objects in, 68-70, **68**
  Integrated File System (IFS), 57-62, **58**
    accessibility of files within, 59, **59**
    APIs for, 62
    cross visibility feature of, 59
    file systems available in, 58-59*t*
    NetServer and, 62
    QDLS in, 60
    QIBM folder in, 71, **72**
    QNTC in, 61, 73
    QOpenSys in, 61, 73
    QSYS access to, 83-85, **84**
    QSYS.LIB in, 60
    Root in, 60, 70-71, **71**, **72**
    stream files in, 61
    UDFS in, 61
    Windows access to, 74-83
  listing libraries, files, and objects in, 62, **63**
  New folder option in, 68, 72-73, **73**
  Permissions (access authority) option for, 66, **66**
  physical files in, 68
  Properties option for, 64-65, **64**, **65**
  QNTC access from 5250 session in, 85-86, **85**
  QSYS access to IFS in, 83-85, **84**
  Shares and sharing defined for, 77-80, **77**, **78**, **79**, **80**
  Windows access to IFS in, 74-83
    assigning folders to network drives in, 81
    copy, cut and paste in, 81-82, **82**
    EBCDIC vs. ASCII files in, 78, **78**
    Guest user ID on NetServer for, 76, **76**
    iSeries NetServer configuration for, 74-76, **74**, **75**, **76**
    Root files and, 83, **83**
    Shares access from Windows in, 80-83, **81**
    Shares and sharing defined for, 77-80, **77**, **78**, **79**, **80**
filtering, Databases, 127, **127**
Find, 16, **16**
fix. *See* PTFs
flyover help, in Database Navigator map, 248, 256, **256**
foreign key constraints, 172-175, **173**, **174**, 181-182, **181**, **182**, 268. *See also* referential integrity
formulas and functions, in Databases, 126, **126**, 146, **146**
FUNCLIB, 329

G

Generate SQL, 110-113, **111**, **112**, 267
grayed out options, 5, 14
Guest user ID on NetServer, 76, **76**
GUI vs. green screen, v, vii-viii

H

HAVING CLAUSE, 148
Help feature in iSeries Navigator, 9-12, **10**, **11**, **12**
Help for commands, 47, **47**

I

i5/OS, v
icon selection in iSeries Navigator, 16, **16**

indexes in database, 99-102, **99**, **101**, **102**, 270
size of, 269
triggers and, 160
inner joins, 141
installing iSeries Navigator, 317-328
from CD, 318-319, **319**
type of installation selected for, **319**
from iSeries, 320, **320**
Selective Setup in, 321, **321**
component selection for, 322, **322**
Service Packs for, 323-324, **323**, **324**
connection configuration in, 324-328, **325**, **326**, **327**, **328**
Integrated File System (IFS), viii, ix, 57-62, **58**. *See also* file systems
accessibility of files within, 59, **59**
APIs for, 62
cross visibility feature of, 59
file systems available in, 58-59*t*
NetServer and, 62
QDLS in, 60
QIBM folder in, 71, **72**
QNTC in, 61, 73
QOpenSys in, 61, 73
QSYS.LIB in, 60
Root in, 60, 70-71, **71**, **72**
stream files in, 61
UDFS in, 61
Windows access to, 74-83
integrity checks, 168
Interprocess Communications (IPC), x, 3
iSeries, installing iSeries Navigator from, 320, **320**
iSeries Navigator. *See also* Basic Operations; Work Management
access control and, xi-xiv, **xii**, **xiii**, **xiv**, 5
Auto Refresh option in, 14-15, **15**
computer minimum requirements for, viii
configuration of, 317-328
customizing views in, 14-15, **14**
database functionality in, 266, **266**
Edit menu and options in, 16, **16**
environments supported by, 307-309, **308**, **309**
functions available through, vi-vii, **vii**
grayed out options in, 5, 14
Help feature in, 9-12, **10**, **11**, **12**
icon selection in, 16, **16**
installation of, xi, 317-328
laptop use and, 307-309
memory requirements of, viii
menu options in, 15-17, **15**
mouse operation in, 2
navigation through, 1-12
obtaining and accessing, x-xi
opening your server in, 1-2, **2**
options and option selection in, 2-5, **3**, **4**
plug-ins for, 309-314, **310**-**313**
Print menu and options in, 15, **15**
Refreshing/updating contents of detail pane in, 13
scroll bar operation in, 2
security and, 5
sorting options in, 14
speed of, viii
starting work with, 1-17
stopping or cancelling requests in, 17
taskpad in, 5-9, **6**
time display in, 13
Title in, 12-13, **13**
User Preferences setting in, 17, **17**

J

Java Virtual Machine (JVM), viii
Java, viii
JDBC connection, Databases, 130-131, **131**
job log, 35-36, **35**
job monitors, 39-43. *See also* Monitors function
collection interval setting in, 42, **42**
defining and naming, 40, **40**
list of current, 42, **43**
Management Central and, 305, **305**
metrics selected for, 41, **41**
starting, 42, **42**
Job Queues option in Work Management, 51-53, **52**
Jobs function, 33-43, **34**
active jobs and queues displayed in, 34, **34**
Active Jobs option in Work Management and, 50, **50**
call stack for jobs in, 37, **37**
job details option in, 37-39, **37**
job log in, 35-36, **35**
job monitors in, 39-43. *See also* Monitors function
collection interval setting in, 42, **42**
defining and naming, 40, **40**
list of current, 42, **43**
metrics selected for, 41, **41**
starting, 42, **42**
Job Queues option in Work Management and, 51-53, **52**
lock holders for job in, 38-39, **39**
locked objects for job in, 38, **38**
options available in, 34, **34**

Jobs function, *continued*
Output Queues option in Work Management and, 53, **53**
second-level message text viewed in, 36, **36**
Server jobs option in Work Management and, 51, **51**
Work Management and, 50-51
join operators, 141
joins, 124, **124**, 140-144, 141*t*
conditions for, 144, **144**
properties of, 143, **143**
selecting tables for, 142, **142**
journals and journal receivers in schemas, 90

K

Kerberos, 326
key constraints, 170-172, **171**, **172**, 268. *See also* referential integrity

L

laptop use and iSeries Navigator, 307-309
left outer joins, 141
lock holders for job, 38-39, **39**
locked objects for job, 38, **38**
log, job, 35-36, **35**

M

Management Central, ix, 273-305
access control in, xiv, **xiv**
central system identified for Command Definitions in, 277-280, **277**-**280**
Definitions function in, 277-304
endpoint systems for, 275-276, **275**
functions available for, 273-274, **274**
monitors in, 305, **305**
Package Definitions in, 281-286, **281**-**286**
Product Definitions in, 286-304, **287**-**304**
PTFs and, 286, 303-304, **303**, **304**
Send window for package definition in, 286, **286**
sharing options in, 276, 284, **284**
snapshot creation using, 285, **285**
Status window in, 280, **280**
system groups for, 275-276, **276**
mapping a database. *See* Databases, mapping of
memory requirements, viii
menu options in iSeries Navigator, 15-17, **15**
Messages function, 30-33, **30**
break messages in, 32
customizing view of, 33, **33**
Properties setting for, 31, **31**
sending message through, 32, **32**
viewing other queues in, 33, **33**
modes, for triggers, 164
monitors, Management Central, 305, **305**
mouse operation in iSeries Navigator, 2

N

naming conventions, using DDL vs. DDS, 269-270
NetServer, x, 62
EBCDIC vs. ASCII files in, 78, **78**
failed log on attempts on, 76
Guest user ID on NetServer for, 76, **76**
Shares and sharing defined for, 77-80, **77**, **78**, **79**, **80**
Windows access to IFS, configuring for, 74-76, **74**, **75**, **76**
Windows access to IFS, Guest user ID on NetServer for, 76, **76**
New folder option, in file systems, 68, 72-73, **73**
NEWSCHEMA, 329
Nullable and null capable columns, 97, 270

O

Operations Navigator, v, vi
options and option selection in iSeries Navigator, 2-5, **3**, **4**
OS/400, v
outer joins, 141
Output Queues option in Work Management, 53, **53**

P

Package Definitions, Management Central, 281-286, **281**-**286**
partitioning, Databases, 97
PDM, v
permissions for objects, file systems, 66
Physical File Constraint command, 168
physical files, 68
tables of database vs., 98
plug-ins, 309-314, **310**-**313**
Previous Commands window, 48, **48**
Print menu and options, 15, **15**
Printer Output function, 20-30, **21**
columns and files to view in, selecting, 26-29, **27**, **28**, **29**
context menu for, vs. WRKSPLF, 20-21, 21-22*t*

customizing view in, 26-29
drag-and-drop spool files in, 24
5250 sessions vs., 29-30
multiple spool file manipulation in, 26, **26**
Properties option setting for, 24-26, **25**
sort sequence in, 26-27, **27**
spool file opening, viewing using, 22-24, **23**
Work with Spool File (WRKSPLF) vs., 20-21, 21-22*t*
Product Definitions, Management Central, 286-304, **287**-**304**
programmers and iSeries Navigator, viii-ix
Prompt a command, 45-47, **45**, **46**
PROPERNAME UDF, 196, 196-**197**
PTFs, Management Central, 286, 303-304, **303**, **304**

Q

QDLS, 60
QIBM folder, file systems, 71, **72**, 71
QNTC, 61, 73
5250 access to, 85-86, **85**
QOpenSys, 61, 73
QSYS.LIB, 60
IFS access from, 83-85, **84**

R

referential integrity, 168-183
check constraints in, 175-178, **176**, **177**, **178**, 268
column validation and, 168, 268-269
Constraint Definition view for, 181, **181**
constraint management for, 178-183, **177**
constraints for, 168-169
defining constraints for, 170, **171**, **172**
Edit Check Pending Constraints (EDTCPCST) for, 180-183, **180**, **181**, **182**, **183**
enabling/disabling constraints in, 179-180
error trapping and, 183
foreign key constraints in, 172-175, **173**, **174**, 181-182, **181**, **182**, 268
integrity checks and, 168
key constraints in, 170-172, **171**, **172**, 268
Physical File Constraint command in, 168
violation of constraints in, 180-181, 183
Refreshing/updating contents of detail pane, 13
result sets in SQL, 122, **122**
copying from, 122
right outer joins, 141
Root file system, 60, 70-71, **71**, **72**
sharing, 83, **83**
row selection using UDF, 208, **208**
Run Command, 43-50, **44**
Help for commands in, 47, **47**
message windows in, closing, 48-49
Previous Commands window in, 48, **48**
Prompt a command in, 45-47, **45**, **46**
status of commands in, 49, **40**
Run Scripts editor for SQL, 115, **115**, 118-134, **119**
customizing, 129-133
font size in, 130, **130**
JDBC connection in, 130-131, **131**
naming conventions in, 131, **132**
running statements in, options affecting, 130, **130**
stored procedures and, testing in, 218, **218**
translation of CCSID 65535 files in, 132, **133**
Visual Explain in, 133-134, **134**

S

SALDEPTARR example of stored procedures, 222-228, **222**-**229**
SALDEPTSQL example of stored procedures, 230-234
Schema Trees and Tables in map of database, 248
schemas, Databases, 89-93, **90**
scroll bars in iSeries Navigator, 2
security, x, 5
access control to iSeries Navigator, xi-xiv, **xii**, **xiii**, **xiv**
SELECT statement, user defined functions (UDF), 206, **206**
Select Tables button, Databases, 104, **105**
Selective Setup, in installation, 321, **321**
Send Break Message (SNDBRKMSG), 30
Send Message (SNDMSG), 30
Send window for package definition, Management Central, 286, **286**
Server jobs option in Work Management, 51, **51**
servers
connection configuration in, 324-328, **325**, **326**, **327**, **328**
opening in iSeries Navigator, 1-2, **2**
System Status for, 54-55, **55**
Service Packs for iSeries Navigator, 323-324, **323**, **324**
SET SCHEMA, 329
SEU, v, 70
sharing options, Management Central, 276, 284, **284**
snapshot creation using Management Central, 285, **285**

sorting, 14
  Databases and, 128, **128**
sourced functions, user defined functions (UDF), 202-203, **203**, **204**
speed of execution, viii
spool files
  Change Spool File Attributes (CHGSPLFA) in, 24-26, **25**
  drag-and-drop, 24
  multiple-file manipulation in, 26, **26**
  opening, viewing, 22-24, **23**
  Properties setting for, 24-26
  selecting which to view, 26-29, **27**, **28**, **29**
SQL, 87-88, 109-118, 267
  casting in, 144
  catalog views in, 90-92, 90-91*t*
  CL commands and, 119
  column selection in, 125, **125**
  copying from result sets in, 122
  CREATE VIEW statement in, 147, **148**
  customizing Run SQL Scripts for, 129-133
  Data Definition Language (DDL), 109-110
  DB2 UDB family option in, 112
  DROP command in, 270
  Explain SQL option in, 66, **67**
  field reference files and, 136
  filtering in, 127, **127**
  Format statements for readability option in, 113
  formulas and functions in, 126, **126**, 146, **146**
  functions created using, 198-202, **199**, **200**, **201**. *See also* user defined functions
  Generate labels option in, 113
  Generate SQL option for, 110-113, **111**, **112**, 267
  GroupBy option, 146-147, **147**
  HAVING CLAUSE in, 148
  Include drop statements option in, 113
  Include informational messages option in, 113
  JDBC connection in, 130-131, **131**
  joins in, 124, **124**, 144, **144**
  journals and journal receivers in schemas for, 90
  messages (error, completion) for run statements in, 121
  Naming convention option in, 114, 131, **132**
  Nullable and null capable columns in, 97, 270
  result sets from, 122, **122**
  Run Scripts editor for, 115, **115**, 118-134, **119**. *See also* Run Scripts editor for SQL
  running statements and commands in, 119-120
  sample database drop-down box in, 120-121, **120**
  sample generated script for, 115-**116**, 117-**118**
  schemas in, 89-93, **90**
  scripts in, 110
  SELECT statement in, 206, **206**
  sorting in, 128, **128**
  SQL Assist feature, prompting for new statements in, 123-129, **123** -**129**
  SQL Assist-generated statements in, 128-129, **129**
  Start SQL (STRSQL) and, 118
  stored procedures in, 186, 210-221. *See also* stored procedures
  terminology of, 88-89, 89*t*
  translation of CCSID 65535 files in, 132, **133**
  triggers and, 158, 162-166, **163**
  user defined functions in, 185-236. *See also* user defined functions (UDF)
  Visual Explain in, 133-134, **134**
  WHERE clause in, 155
SQL Assist feature, prompting for new statements, 123-129, **123** -**129**
SQL procedures as stored procedures, 229-234. *See* stored procedures, SQL
SQL Scripts for database creation, 329, 329-**339**
Start SQL (STRSQL), 118
status of commands, 49, **40**
Status window, Management Central, 280, **280**
stopping or cancelling requests, 17
stored procedures, 186, 210-221
  CREATE FUNCTION and CREATE PROCEDURE vs., 236
  details of, viewing, 235, **235**
  distributed environments and, calling of, 211-212, **212**
  Explain SQL option for, 235, **236**
  external procedures in, 212-221
    cursor in results sets and, 227, **227**
    defining, 213-217, **213**, **214**, **216**, **217**
    passed parameters in, 218-219, **219**
    result sets from, 221-228, **222**-**229**
    SALDEPTARR example of, 222-228, **222**-**229**
    simple, example of, 212-221
    testing, using Run SQL Scripts editor, 218, **218**
    UPSALARY example of, 219-220, **219**, **220**, **221**
  sample of, 211, **211**
  SQL procedures in, 229-234
    calling, 233, **233**
    defining, 230-232, **230**, **231**, **232**
    generating SQL for existing procedure in, 233, **234**
    SALDEPTSQL example of, 230-234
  using, 210-211, 236
  wrapper use of, 212
stream files, 61

Subsystems option, Work Management, 54, **54**
summary views, Databases, 144-149, **145**-**149**, 268
system groups, Management Central, 275-276, **276**
System Status, 54-55, **55**

T

tables in database, 93-99
columns in, 94-97, **95**
constraints in, 97
creation of, 93, **93**, 269
data types used in, 96-97, 96-97*t*, 136-137
defining, 267, **267**
editing contents of, 98-99, **98**
indexes for, 100-101, **101**, **102**
joins in, 124, **124**, 140-144
map generated from, 248, **249**
maximum size of, vs. physical files, 98
naming of, 93-94
Nullable and null capable columns in, 97, 270
partitioning in, 97
size of, 269
taskpad, 5-9, **6**
customizing, 6, **6**
deselecting, 8, **8**, **9**
My Tasks displayed in, 7, **7**
time display, 13
Title in iSeries Navigator, 12-13, **13**
triggers, 157-167. *See also* referential integrity and triggers
5250 sessions and, 159, 162
Add Physical File Trigger (ADDPFTRG), 159, 162
Change Physical File Trigger (CHGPFTRG) and, 167
correlation names for, 164
defining, 159-162, **159**, **161**, 165-166, **165**, **166**
enabling/disabling, 167
events for, 158
external, 158-162
firing of, 158
managing, 166-167, **167**
mode for, 164
naming, 161
numbers allowed, 158
Read after, 162
run once or for each row specified for, 164
saving, 160
SQL type, 162-166, **163**
temporary names for, 165
timing for, 164, **164**
trapping errors with, 183
use of, 157-158
views and indexes using, 160

U

UDFS, 61
UPSALARY example of stored procedures, 219-220, **219**
user defined functions (UDF), 185-236
calling other functions or procedures using, 191
column definition using, 206-207, **207**
data access for, 192
data returned from, 191
date conversion example of, 186-198, **187**, **188**-**189**
defining a view containing, 209-210, **209**, **210**
defining external UDF, 190-192, **191**, **193**, **195**
details viewed for, 204-205, **205**
example of, 186-210, **186**
external functions and, 187-198, **190**
Language option for, 195-196
naming, 190, 192, 205
nulls and, 194
parallel running in, 191
parameter style for, 193-194, 199, **200**
program vs. Java method calls for, 195
PROPERNAME example, 196, 196-**197**
row selection using, 208, **208**
RPG subprocedures converted into, 190-198
saving returned values in, 192
SELECT statement using, 206, **206**
service program names for, 198
SET PATH to determine search sequence for, 205
sourced functions as, 202-203, **203**, **204**
SQL functions as, 198-202, **199**, **200**, **201**
SQL Statements for, 200-202, **201**
threads run in, 192
using, 205-210, 236
working with, 204-205
user defined relationships, in Databases, 258-260, **259**, **260**
User Preferences setting, 17, **17**
Users and Groups, x

V

views, customizing, 26-29, 14-15, **14**
views in database, 102-107, 137-156, 270
changing, 107
column definition using UDF, 206-207, **207**
CREATE VIEW statement in, 147, **148**

views in database, *continued*
creating and naming, 103, **103**
Data Description Language (DDL) and, 137
defining, 104, **104**
derived columns in, 150-154, 150-**154**, 268
HAVING CLAUSE in, 148
joins in, 140-144, 141*t*
row selection in, 154-156, **155**, 208, **208**
Select Tables button for, 104, **105**
selecting columns in, 105
selecting rows in, 106, **106**
summary type, 144-149, **145**-**149**, 268
triggers and, 160
user defined functions (UDF) and, defining, 209-210, **209**, **210**
views of, multiple simultaneous, 137-140, **138**-**140**, 268
Visual Explain, 133-134, **134**

W

WebSphere Development Studio Client (WDSC), v, 70, 81
WHERE clause, 155
Windows access to IFS, 74-83
assigning folders to network drives in, 81
copy, cut and paste in, 81-82, **82**
EBCDIC vs. ASCII files in, 78, **78**
iSeries NetServer configuration for, 74-76, **74**, **75**, **76**
Root files and, 83, **83**
Shares access from Windows in, 80-83
Shares and sharing defined for, 77-80, **77**, **78**, **79**, **80**
Work Management, ix, 20, 50-51
Active Jobs option in, 50, **50**
Job Queues option in, 51-53, **52**
Output Queues option in, 53, **53**
Server jobs option in, 51, **51**
Subsystems option in, 54, **54**
System Status and, 54-55**, 55**
Work with Active Jobs (WRKACTJOB), 20
Work with Job Queues (WRKJOBQ), 20
Work with Object Links (WRKLNK), 83
Work with Output Queues (WRKOUTQ), 20
Work with Relational Database Directory Entries (WRKRDBDIRE), 88
Work with Spool File (WRKSPLF), 20
Work with Subsystems (WRKSUBS), 20
Work with System Status (WRKSYSSTS), 20
Work with User Jobs (WRKUSRJOB), 33-34
Work with User Profiles (WRKUSRPRF), x
wrappers, stored procedures and as, 212