

[fVfXfef€ DSN] f^fu

fVfXfef€ DSN ,É,Â,ç,Äff□f^ f□[fX,ì'Ç%oÁ□A□í□œ□A□□→,ð□s,ç,Ü,·□B,±,ê,ç,ìff□f^ f□
 □[fX,ð□Aft□fU□[,Á,í,È,fRf"fsf...□f^,É'í,μ,Äf□□[ff<,É,μ,Ü,·□BfVfXfef€□A,Ü,½,íCE CEÀ,ðŽ□,Áft□fU□[,í□Af
 VfXfef€ DSN ,ìff□f^ f□[fX,ðŽg—p,Á,«,Ü,·□B

fifvfVfjf"

□à-¾

[fVfXfef€ ff□f^ f□[fX]
 f{fbfNfX

DSN ,ì-¼'O,Æ,»,ê,É'í%ož,·,éfhf
 %ofCfo,ðŠÜ,p□AfVfXfef€ DSN ,ì'ê—
 ,Á,·□BfVfXfef€ DSN
 ,ðf_fuf<fNfŠfbfN,·,é,Æ□Afhf%ofCfoCEÀ—
 L,ìff□f^ f□[fX,ìfZfbfgfAfbfv f_fCfAf□fO
 f{fbfNfX,ª•Žì,³,è,Ü,·□B

[□□→]

Šù'¶,ìfVfXfef€ ff□f^ f□[fX,ì□
 □→,ð•í□X,·,éfhf%ofCfoCEÀ—L,ìff□f^ f□
 □[fX,ìfZfbfgfAfbfv f_fCfAf□fO
 f{fbfNfX,ð•Žì,μ,Ü,·□B[□□→]
 ,ðfNfŠfbfN,·,é'O,É□A'í□Ü,Æ,È,éVfXfef€
 ff□f^ f□[fX,ðfŠfXfg
 f{fbfNfX,©,ç'í'ð,μ,Ä,¨,•K—v,ª,è,Ü,·□B

[ì'Ç%oÁ]

□V,μ,fVfXfef€ ff□f^ f□[fX,ð'Ç
 %oÁ,μ,Ü,·□B,±
 ,ìf{f^f",ðfNfŠfbfN,·,é,Æ□A[ff□f^ f□
 □[fX,ì□V<K□ì□→] f_fCfAf□fO f{fbfNfX,ª•\
 Žì,³,è,Ü,·□BfVfXfef€ ff□f^ f□[fX,ð'Ç
 %oÁ,·,éfhf%ofCfo,ð'í'ð,μ,Ü,·□B[Š®—¹]
 ,ð'í'ð,·,é,Æ□A,»,ìfhf%ofCfoCEÀ—
 L,ìff□f^ f□[fX,ìfZfbfgfAfbfv f_fCfAf□fO
 f{fbfNfX,ª•Žì,³,è,Ü,·□B

[□í□œ]

Šù'¶,ìff□f^ f□[fX,ð□í□œ,μ,Ü,·□B[□í□œ]
 ,ðfNfŠfbfN,·,é'O,É□A□í□œ,·,éVfXfef€
 ff□f^ f□[fX,ðfŠfXfg
 f{fbfNfX,©,ç'í'ð,μ,Ä,¨,•K—v,ª,è,Ü,·□B

[OK]

[ODBC ff□f^ f□[fX fAfhf~fjXfgfœ□f^]
 f_fCfAf□fO
 f{fbfNfX,ð•Á,¶,Ü,·□B[fVfXfef€ ff□f^ f□
 □[fX] f{fbfNfX,É'í,·,é•í□X,ð"K—
 p,·,é,½,ß,É□A[OK] ,ðfNfŠfbfN,·,é•K—
 v,í,è,Ü,³,ñ□BfŠfXfg
 f{fbfNfX,É'í,·,é•í□X,í□Afff□f^ f□
 □[fX,ìfZfbfgfAfbfv f_fCfAf□fO f{fbfNfX,Á
 [OK] ,ª%oŸ,³,è,½ŽŽ" _,"Á"K—p,³,è,Ä,ç
 ,Ü,·□B

[fLfff"fZf<]

[ODBC ff□f^ f□[fX fAfhf~fjXfgfœ□f^]
 f_fCfAf□fO f{fbfNfX,ð•Á,¶,Ü,·□B,à,μ
 [fLfff"fZf<]
 ,ª'í'ð,³,è,½,Æ,μ,Ä,à□A[fVfXfef€ ff□f^ f□
 □[fX] f{fbfNfX,Ö,ì•í□X,íZæ,è□A,³,è,È,ç

	fAfhf~fjfXfgfCE[]f^,ìŽÀs“-[]%,É[]Å[] %,É•\
	Ž!,³,è,éŠù'èftfHf<f_,í[]AfVfXfef€[]î•ñ,ÉŽ ù,ß,ç,è,Ä,ç,Ü,·,ª[]A,»è,í [ftfHf<f_,ì[]Ý'è) f{f^f“,Ä•ï[]X,Ä,«,Ü,·[]B
[1 ,Ä[]ã,]ftfHf<f_,Ö (fAfCfRf“)	[ff[]f^f[]fX,ì[]è[]Š] f{fbfNfX,É•\ Ž!,³,è,½ftfHf<f_,ðCE>[]Ý,ìftfHf<f_,ì 1 ,Ä[]ã,]ftfHf<f_,É•ï[]X,µ,Ü,·[]B
[OK]	[ODBC ff[]f^f[]fX fAfhf~fjfXfgfCE[]f^] f_fCfAf[]fO f{fbfNfX,ð•Ä,¶,Ü,·[]B[ftf@fCf< ff[]f^ f[] []fX] f{fbfNfX,É'í,·,é•ï[]X,ð“K— p,·,é,½,ß,É[]A[OK] ,ðfNfŠfbfN,·,é•K— v,í, ,è,Ü,¹,ñ[]BfŠfXfg f{fbfNfX,É'í,·,é•ï[]X,í[]Af[]f[]f^ f[] []fX,ìfZfbfgfAfbfv f_fCfAf[]fO f{fbfNfX,Ä [OK] f{f^f“,ª%ÿ,³,è,½Žž“_„Å“K— p,³,è,Ä,ç,Ü,·[]B
[fLfff“fZf<]	[ODBC ff[]f^f[]fX fAfhf~fjfXfgfCE[]f^] f_fCfAf[]fO f{fbfNfX,ð•Ä,¶,Ü,·[]B[fLfff“fZf<] ,ª'ð,³,è,½,Æ,µ,Ä,à[]A[ftf@fCf< ff[]f^ f[] []fX] f{fbfNfX,Ö,ì•ï[]X,íŽæ,è[]Á,³,è,É,ç ,±,Æ,É'[]^Ó,µ,Ä,,¾,³,ç[]B
[fwf<fv]	fwf<fv%œ-É,ð•\Ž!,µ,Ü,·[]B

[ODBC fhf%ofCfo] f^fu

fCf“fXfg[]f<,³,è,½ ODBC fhf%ofCfo,ÉŠÖ,·,é[]î•ñ,ð•\Ž!,µ,Ü,·[]B[ODBC fhf%ofCfo] f{fbfNfX,É,í[]AfRf“fsf...
[]f^ ,ÉfCf“fXfg[]f<[]ÿ,Ý,ìfhf%ofCfo,ª•\Ž!,³,è,Ü,·[]B

fifvfVfjf“	[]à-¾
[ODBC fhf%ofCfo] f{fbfNfX	fRf“fsf... []f^ ,ÉfCf“fXfg[]f<,³,è,½CEÄ[]X,ì ODBC fhf%ofCfo,É,Ä,ç,Ä[]A- ¾'[]O[]Afo[]fWfjf“[]A%ïŽĐ- ¾[]Aftf@fCf<-¾[]Aftf@fCf<[]X[]V“ ú•t,ð•\ Ž!,µ,Ü,·[]B
[OK]	[ODBC ff[]f^f[]fX fAfhf~fjfXfgfCE[]f^] f_fCfAf[]fO f{fbfNfX,ð•Ä,¶,Ü,·[]B
[fLfff“fZf<]	[ODBC ff[]f^f[]fX fAfhf~fjfXfgfCE[]f^] f_fCfAf[]fO f{fbfNfX,ð•Ä,¶,Ü,·[]B
[fwf<fv]	fwf<fv%œ-É,ð•\Ž!,µ,Ü,·[]B

fhf%ofCfo,ì'Ç%Á,Æ[]í[]œ,ÉŽg—p,·,é ['Ç%Á] f{f^f“,Æ [[]í[]œ] f{f^f“,í[]A,±,ìf_fCfAf[]fO
f{fbfNfX,É,í, ,è,Ü,¹,ñ[]BODBC fhf%ofCfo,ì'Ç%Á,â[]í[]œ,í[]Afhf%ofCfo,ìfZfbfgfAfbfv fv[]f[]Of%of€,ðŽg—
p,µ,Ä[]s,ª•K—v,ª, ,è,Ü,·[]B

[fgfCE[fX] f^fu

ODBC fhf%ofCfo f}f[]fWff,^a ODBC ŠÖ" ,ìCEÄ,Ñ[]o,μ,ðfgfCE[fX ('Ç[]Ö) ,·,é•û-
@,ðŽw'è,μ,Û,·[]B[]íŽžfgfCE[fX[]A^è"x,ì,Ý,ìfgfCE[fX[]A" @ "ìfgfCE[fX[]A,Û,½,ìfjXf^fe
fgfCE[fX,ðŽw'è,À,«,Û,·[]B

fìfvfVfj" "

à-¾

[fgfCE[fX,ìŽÀ[]s]

fgfCE[fX,ð—
LCEø,É,μ[]AfgfCE[fX,ðŠjŽn,·,é^fCf~f" f
O,ðCE^,ß,Û,·[]B,±
,é,ç,ìfRf"fgf[]f<,í[]A[]Ú'±,²[]s,í,é,Ä,ç
,È,ç,Æ,«,É,ì,Ý[]Y'è,À,«,Û,·[]B
[fgfCE[fX,μ,È,ç]
,ð'ì'ð,·,é,Æ[]AfgfCE[fX,²-
³CEø,É,È,è,Û,·[]B
[[]í,ÉfgfCE[fX]
,ð'ì'ð,·,é,Æ[]Afj}fvf",À[]s,í,é,é,·,×,Ä,ì[]Ú'
±,É,Ä,ç
,Ä[]AfgfCE[fX,²[]íŽžž© " @ "ì,ÉŽÀ[]s,³,é,
Û,·[]B

[fgfCE[fX,ìŠjŽn]

[^è"x,ì,ÝfgfCE[fX] ,ð'ì'ð,·,é,Æ[]AZŽ
%oñ,ì[]Ú'±
,ÉCEÀ,èfgfCE[fX,²ŽÀ[]s,³,è[]A,»,ì[]Ú'±
,²[]Ø'f,·,é,ÆfgfCE[fX,²-³CEø,É,È,è,Û,·[]B
" @ "ì,ÉfgfCE[fX,ð—
LCEø,É,μ,Û,·[]B" @ "ìfgfCE[fX,ì[]A[ODBC
ff[]f^f[]fX fAfhf~fjXfgfCE[f^]
f_fCfAf[]fO f{fbfNfX,²•\Žì,³,é,Ä,ç
,é[]Á't,ÉŽÀ[]s,³,é,Û,·[]B" @ "ìfgfCE[fX,ì[]
A[]Ú'±,ì—L-³,É,©,©,í,ç,·, —
LCEø,É,À,«,Û,·[]B,±
,é,ðNfŠfbfN,·,é,Æ[]A[fgfCE[fX,ìŠjŽn]
f{f^f",² [fgfCE[fX,ì'àž~]
f{f^f",É•ì,í,è,Û,·[]B[fgfCE[fX,ì'àž~]
f{f^f",ðNfŠfbfN,·,é,©[]A[ODBC ff[]f^f[]
[]fX fAfhf~fjXfgfCE[f^] f_fCfAf[]fO
f{fbfNfX,ð•À,¶,é,Æ[]A" @ "ìfgfCE[fX,²-
³CEø,É,È,è,Û,·[]B

[f[]fO ftf@fCf<,ìfpfX]

fgfCE[fX[]î•ñ,ìŠi" [ftf@fCf<,ìfpfX,Æftf@f
Cf<-¼,ð•\
Žì,μ,Û,·[]BfvfXfef€[]î•ñ,©,çŠù'è,ìfpfX,Æ
ftf@fCf<-¼ (sql.log)
,²Žæ,ç,é,Û,·,²[]A•É,ìfpfX,Æftf@fCf<-
¼,ð"ü—ì,·,é,©[]A[ŽQ[]Æ]
f{f^f",ðNfŠfbfN,μ,ÄftfHf<f_,Æftf@fCf<,
ð'ì'ð,·,é,±
,Æ,À[]A•É,ìftf@fCf<,ðŽw'è,À,«,Û,·[]B

[ŽQ[]Æ]

f}fvf",ìftfHf<f_,ðŽQ[]Æ,μ,Ä[]Af[]fO
ftf@fCf<,ìfpfX,Æftf@fCf<-

[fjXf^f€ fgfCE[]fX DLL]	<p>¼,ð'ð,·,é,Æ,«,ÉŽg—p,μ,Û,·□B</p> <p>fgfCE[]fX,ìŽÀ□s,ÉŽg—p,·,éftf@fCf<,ð</p> <p>ODBCTRAC.DLL</p> <p>ftf@fCf<^ÈŠO,ìfgfCE[]fX DLL</p> <p>,©,ç'l'ð,·,é,Æ,«,ÉŽg—p,μ,Û,·□BODBC</p> <p>SDK ,É•t'@ ,·,é ODBCTRAC.DLL</p> <p>ftf@fCf<,ð□Aft[]fU□[,ª'l,ÔjXf^f€ DLL</p> <p>,É'u,«Š,·,ç,è,Û,·□BjXf^f€ DLL</p> <p>,ìfpfX,·,æ,Ñftf@fCf<-¼,ð"ü—</p> <p>í,·,é,©□A[DLL ,l'ð]</p> <p>f{f^f" ,ðfNfŠfbfN,μ,ÄjXf^f€ DLL</p> <p>,ð'ð,μ,Û,·□B</p>
[DLL ,l'ð]	<p>fffBfCEfNfgfŠ□\ç,ðŽQ□Æ,μ,ÄjXf^f€</p> <p>fgfCE[]fX DLL ,ð'ð,·,é,Æ,«,ÉŽg—</p> <p>p,μ,Û,·□BDLL</p> <p>,ð'ð,·,é,Æ□A,» ,ìfpfX,Æftf@fCf<-¼,ª</p> <p>[fjXf^f€ fgfCE[]fX DLL] f{fbfNfX,É"ü—</p> <p>í,ª,è,Û,·□B</p>
[OK]	<p>fgfCE[]fX,ìŸ'è,ì•ï□X,ð"K—</p> <p>p,μ,Ä,©,ç[ODBC ff[]f^f[]fX</p> <p>fAfhf~fjXfgfCE[]f^] f_fCfAf□fO</p> <p>f{fbfNfX,ð•Ä,¶,Û,·□B</p>
[fLfff"fZf<]	<p>fgfCE[]fX,ìŸ'è,ì•ï□X,ð"K—p,¹,·,É</p> <p>[ODBC ff[]f^f[]fX fAfhf~fjXfgfCE[]f^]</p> <p>f_fCfAf□fO f{fbfNfX,ð•Ä,¶,Û,·□B</p>
[□X□V]	<p>[ODBC ff[]f^f[]fX fAfhf~fjXfgfCE[]f^]</p> <p>f_fCfAf□fO</p> <p>f{fbfNfX,ð•Ä,¶,·,É□AfgfCE[]fX,Ö,ì•ï□X"</p> <p>à—e,ð"K—</p> <p>p,μ,Û,·□B•ï□X,ª^è□□s,í,è,Ä,ç</p> <p>,È,·,è,î□A,±,ìf{f^f" ,ª'W□F•\Ž ,ª,è,Û,·□B</p>
[fwf<fv]	<p>fwf<fv%œ-É,ð•\Ž ,μ,Û,·□B</p>

,±,İfŠfXfg,ÍADSÑ ,İ-¼'O,Æ,» ,ê,É'İ%ž, ,éfhf%ofCfo,È,ÇAf+[]fU[][DSN ,đ,·,×,Ä·\
Ž,μ,Û,·Bft[]fU[] fff[]f^ f[]fX,É'İ,μ,Äfhf%ofCfoĀ—L,İff[]f^ f[]fX,İfZfbfgfAfbfv f_fCfAf[]fO
f{fbfNfX,đ·\Ž,·,é,É,ÍAf+[]fU[][DSN ,đf_fuf<fNfŠfbfN,μ,Û,·B

Šù'ŋ,ìff[]f^ f[]fX,ì[][]¬,ð•ĩ[]X,·,éfhf%ofCfoĀ—L,ìff[]f^ f[]fX,ìfZfbfgfAfbfv f_fCfAf[]fO f{fbfNfX,ð•\
Ž|,·,é,É,íA[[][]¬],ðfNfŠfbfN,μ,Û,·[]B'í[]Û,Æ,È,éff[]f^ f[]fX,ðfŠfXfg f{fbfNfX,©,ç'í'ð,μ,Ä,¨,·K—
v,^a, ,è,Û,·[]B

□V,μ,ff□[f^ f□[fX,đ'Ç%oÁ,·,é,É,í□A['Ç%oÁ] ,đfNfŠfbfN,μ,Ü,·□B[ff□[f^ f□[fX,ì□V<K□ì□-] f_fCfAf□fO
f{fbfNfX,^a•\Ž|,³,é,Ü,·□Bff□[f^ f□[fX,đ'Ç%oÁ,·,éfhf%ofCfo,đ'l'đ,μ,Ä [Š@-¹] ,đ'l'đ,·,é,Æ□A,»},ìfhf
%ofCfoĀ—L,ìff□[f^ f□[fX,ìfZfbfgfAfbfv f_fCfAf□fO f{fbfNfX,^a•\Ž|,³,é,Ü,·□B

Šù'¶,ìff[]f^ f[]fX,đfŠfXfg f{fbfNfX,©,ç[]í[]œ,·,é,É,í[]A[[]í[]œ] ,đfNfŠfbfN,μ,Ü,·[]B[]í[]œ,·,éff[]f^ f
[]fX,đfŠfXfg f{fbfNfX,©,ç'l'đ,μ,Ä,¨,•K—v,ª,è,Ü,·[]B

[ODBC ff□[f^f□[fX fAfhf~fjfXfgfC□[f^] f_fCfAf□fO f{fbfNfX,đ•Â,¶,é,É,í□A[OK]
,đfNfŠfbfN,μ,Û,·□Bff□[f^ f□[fX fŠfXfg f{fbfNfX,É'í,·,é•í□X,đ“K—p,·,é,½,β,É [OK] ,đfNfŠfbfN,·,é•K—
v,í, ,è,Û,¹,ñ□BfŠfXfg f{fbfNfX,É'í,·,é•í□X,í□Aff□[f^ f□[fX,lfZfbfgfAfbfv f_fCfAf□fO f{fbfNfX,Å [OK]
f{f^f“,a%Ÿ,³,ê,½Žž“_„Å“K—p,³,ê,Ä,č,Û,·□B

[ODBC ff[f^ f[fX fAfhf~fjXfgfC[f^] f_fCfAf[fO f{fbfNfX,ð•Â,¶,é,É,ÍAlfLfff“fZf<]
,ðfNfŠfbfN,μ,Û,·B [fLfff“fZf<] ,³fNfŠfbfN,³,ê,Ä,àAff[f^ f[fX fŠfXfg
f{fbfNfX,Ö,ì•ïX,ÍŽæ,èÁ,³,ê,Û,¹,ñB

,±,İf^fu,Å□Afwf<fv,đ•\Ž!,·,é,É,Í□A[fwf<fv] ,đfNfŠfbfN,μ,Ü,·□B

,±,İfŠfXfg,İADSÑ ,İ-¼'O,Æ,» ,é,É'İ%ž, ,éfhf%ofCfo,đ,Í,Ŕ,ßAfvfXfef€ DSN ,đ, ,x,Ä•\
Ž,μ,Û,·BfvfXfef€ ff[]f^ f[]fX ,É'İ,μ,Äfhf%ofCfoEÄ—L,İff[]f^ f[]fX,İfZfbfgfAfbfv f_fCfAf[]fO
f{fbfNfX,đ•Ž, ,é,É,İAfvfXfef€ DSN ,đf_fufçfNfŠfbfN,μ,Û,·B

Šù'¶,ìVfXfef€ ff[]f^ f[]fX,ì[]¬,ð•ï[]X,;éhf%oCfoEÁ—L,ìff[]f^ f[]fX,ìfZfbfgfAfbfv f_fCfAf[]fO
f{fbfNfX,ð•\Ž|,;é,É,í[]A[[]¬] ,ðfNfŠfbfN,μ,Û,·[]B'í[]Û,Æ,È,éfVfXfef€ ff[]f^ f[]fX,ðfŠfXfg
f{fbfNfX,©,ç'í'ð,μ,Ä,¨,•K—v,^a, ,è,Û,·[]B

□V,μ,∫VfXfef€ ff□[f^ ∫□[fX,đ'Ç%Á,·,é,É,Í□A[Ç%Á] ,đfNfŠfbfN,μ,Ü,·□B[ff□[f^ ∫□[fX,ì□V<K□ì□¬]
f_ÇfAf□fO f{fbfNfX,^a•\Ž!,³,ê,Ü,·□BfVfXfef€ ff□[f^ ∫□[fX,đ'Ç%Á,·,éfhf%ofCfo,đ'ì'đ,μ,Ä [Š@—¹]
,đ'ì'đ,·,é,Æ□A,»,ìfhf%ofCfoÆÅ—L,ìff□[f^ ∫□[fX,ìfZfbfgfAfbfv f_ÇfAf□fO f{fbfNfX,^a•\Ž!,³,ê,Ü,·□B

Šù'¶,ìVfXfef€ ff[]f^ f[]fX,đfŠfXfg f{fbfNfX,©,ç[]í[]œ,.,é,É,íA[[]í[]œ]
,đfNfŠfbfN,μ,Û,·[]B[]í[]œ,.,éVfXfef€ ff[]f^ f[]fX,đfŠfXfg f{fbfNfX,©,ç'l'đ,μ,Ä,¨,•K—v,^a,,è,Û,·[]B

,±,lfŠfXfg,íA[ff[]f^ f[]fX,ìé[]Š] f{fbfNfX,Å•\Ž!,³,ê,éftfHf<f_É,Â,ç,Ä[]A,»,±,ÉŠi"[,³,ê,½ftf@fCf< DSN
,ÆfTfufthf<f_ð,·,×,Ä•\Ž!,μ,Û,·Bftf@fCf< DSN ,đf_fuf<fNfŠfbfN,·,é,Æ[]Afhf%oofCfoĀ—L,ìff[]f^ f\
[]fX,lfZfbfgfAfbfv f_fCfA[]fO f{fbfNfX,ª•\Ž!,³,ê,Û,·B

Šù'¶,ìftj@fCf< fff[f^ f[fX,ì\[-,đ•ĩ[X,;éfhf%ofCfoĀ—L,ìff[f^ f[fX,ìfZfbfgfAfbfv f_fCfAfO
f{fbfNfX,đ•\Ž|,;é,É,í[A[[-] ,đfNfŠfbfN,μ,Û,·B'íÛ,Æ,È,éftj@fCf< fff[f^ f[fX,đfŠfXfg
f{fbfNfX,©,ç'í'đ,μ,Ä,¨,•K—v,^a, ,è,Û,·B

V,μ,ftf@fCf< ff[]f^ f[]fX,đ'Ç%oÁ,μ,Ü,·B,±,ìf{f^f“,đfNfŠfbfN,·,é,ÆA[ff[]f^ f[]fX,ìV<K[]i[]~]
f_CfA[]fO f{fbfNfX,ª•\Ž,³,è,Ü,·B[]V,μ,çftf@fCf< ff[]f^ f[]fX,đ'Ç%oÁ,·,éfhf%ofCfo,đ'í'đ,μ [ŽŸ,Ö]
,đ'í'đ,·,é,ÆAftf@fCf< DSN ,É'í,·,éL[]f[]f[]fh,đŽw'è,Å,«,Ü,·B

Šù'¶,ìff[]f^ f[]fX,đ[]í[]œ,μ,Ü,·B[[]í[]œ] ,đfNfŠfbfN,·,é'O,É[]A[]í[]œ,·,éftf@fCf< ff[]f^ f[]fX,đfŠfXfg
f{fbfNfX,©,ç'í'đ,μ,Ä,·,•K—v,^a, ,è,Ü,·B

•Ž! 't, \ftfHf<f_, ð AODBC fAfhf~fjfXfgfCE [f^, iŽÀ sŽž, É•\
Ž!, ., éŠù' èftfHf<f_, ÉÝ'è, ., é, É, í A[ftfHf<f_, iÝ'è] , ðfNfŠfbfN, µ, Ü, . B

fjfCef“fg ftjHf<f_đ•\Ži,μ,Ü,·□B,»i%°đ,İfEfBf“fhfE,É,Í□AjjfCef“fg ftjHf<f_İfTfuftjHf<f_Æftj@fCf< DSN ,^a•\ Ži,³ê,Ü,·□B□%ŠúŸ’è,Å,Í□Afvfxfef€□i•ň,ÉŽù,β,ç,ê,½Šù’èftjHf<f_^a•\Ži,³ê,Ü,·□B

[ff[f^f^fX,ìéš],É•\Ž!,³,é,½ftfHf<f_>đA'¼ÚCE»Ÿ,ìftfHf<f_>ì 1 ,Âã,ìftfHf<f_>É•ĩX,·,é,É,íA[1
,Âã,ìftfHf<f_>Ö (fAfCfRf“)] ,đfNfŠfbfN,μ,Ü,·B

ftfHf<f_,"à—e,δ•\Ž!,·,é,É,í□A[ftfHf<f_] f{fbfNfX,ÉftfHf<f_,"ü—í,μ,Ü,·□B□â'ípfX□A,Ü,½,íjffCEf"fg
ftfHf<f_,"ç,ì'Š'ípfX,ì,ç,,é,©,δ"ü—í,Å,«,Ü,·□B

,±,lfŠfXfg,í□Afrf“fsf...□[f^,ÉfCf“fXfg□[f<,³,ê,½ ODBC fhf%ofCfo,ì-¼‘O□Afo□[fWf#f“□A%iŽĐ-
¼□Aftf@fCf<-¼□AfŠfŠ□[fX,ì“ú•t,đ•Ž!,μ,Ü,·□B

fgfCE[fX,δ⁻³CEø,É,·,éêê‡,íA[fgfCE[fX,μ,È,ç] ,ðfNfŠfbfN,μ,Ü,·B

f}fVf",Ås,í,è,é,.,x,Ä,ìÚ'±,É,Â,ç,ÄAfgfCE[fX,ðížžž©"®"l,ÉŽÅs,.,é,É,íA[í,ÉfgfCE[fX]
.ðNfŠfbfN,μ,Û,·B

fgfCE[fX,đŽŸ%oň,ìÚ'±,ÉCEÀ,Á,ÄŽÀs,·,ééé#,[A[^è"x,ì,ÝfgfCE[fX] ,đfNfŠfbfN,μ,Û,·BŽŸ%oň,ìÚ'±
,³Ø'f,·,é,ÆAfgefCE[fX,í-³CEø,É,È,è,Û,·B

[ODBC ff[]f^ f[]fX fAfhf~fjfXfgf[]f^] f_fCfAf[]fO f_{fbfNfX,i}\
Ž!t,Éfgf[]fX,đŽÀs,·,é,É,í[]A[fgf[]fX,ìŠ]Žn] ,đfNfŠfbfN,μ,Û,·[]B“@“lfgf[]fX,í[]A[]ú‘±,ì—L-
³,É,©,©,í,ç,·—L[]ø,É,Å,«,Û,·[]B,±,ê,đfNfŠfbfN,·,é,Æ[]A[fgf[]fX,ìŠ]Žn] f{f^f“,ª[fgf[]fX,ì’âŽ~]
f{f^f“,É•í,í,è,Û,·[]B[fgf[]fX,ì’âŽ~] f{f^f“,đfNfŠfbfN,·,é,©[]A[ODBC ff[]f^ f[]fX fAfhf~fjfXfgf[]f^]
f_fCfAf[]fO f_{fbfNfX,đ•Â,¶,é,Æ[]A“@“lfgf[]fX,ª-³[]ø,É,È,è,Û,·[]B

f[]O ftf@fCf<,lfpfX,Æftf@fCf<-¼,ð•í[]X,·,é,É,í[]A[]f[]fO ftf@fCf<,lfpfX] f{fbfNfX,ÉfefLfXfg,ð“ü—
Í,μ,Ü,·[]B,±,lf{fbfNfX,í[]Afgf[]fX[]î•ñ,ðŠi”[·,·,éftf@fCf<,lfpfX,Æftf@fCf<-¼,ð•\
Ž!,μ,Ü,·[]BfVfXfef€[]î•ñ,©,çŠù’è,lfpfX,Æftf@fCf<-¼ (SQL.LOG) ,ªŽæ,ç,ê,Ü,·,ª[]A•Ê,lfpfX,Æftf@fCf<-
¼,ð“ü—Í,·,é,©[]A[ŽQ[]Æ] f{f^f”,ðfNfŠfbfN,μ,ÄftfHf<f_,Æftf@fCf<,ð’ð,·,é,±
,Æ,Å[]A•Ê,lfpf@fCf<,ðŽw’è,Å,«,Ü,·[]B

f}fVf",lftfHf<f_đŽQ□Æ,μ,Ä□Af□fO ftf@fCf<,lfpfX,Æftf@fCf<-¼,đ'l'đ,·,é,Æ,«,ÉŽg—p,μ,Ü,·□B

fgfĀ[fX,İŽÀs,ÉŽg—p,·,éftf@fCf<,đ ODBCTRAC.DLL ftf@fCf<^ÈŠO,İfgfĀ[fX DLL
,©,ç'İ'đ,·,é,É,ÍA[fjffXf^f€ fgfĀ[fX DLL] f{fbfNfX,É,»,İpfX,“,æ,Ñftf@fCf<-¼,đ“ü—Í,μ,Û,·BODBC SDK
,É•t'® ,·,é ODBCTRAC.DLL ftf@fCf<,đAft[fU[,ª'İ,ÔjffXf^f€ DLL ,É'u,«Š,İ,ç,ê,Û,·BjffXf^f€ DLL
,İpfX,“,æ,Ñftf@fCf<-¼,đ“ü—Í,·,é,©A[DLL ,İ'İ'đ] f{f^f“,đfNfŠfbfN,μ,ÄjffXf^f€ DLL ,đ'İ'đ,μ,Û,·B

ffBfCEfNfgfŠ\‘č,đŽQ□Æ,μ,Äjfx^f€ fgfCE□[fX DLL ,đ‘đ,·,é,É,í□A[DLL,ì‘đ] ,đfNfŠfbfN,μ,Ü,·□BDLL
,đ‘đ,·,é,Æ□A,»,)fpfx,Æftf@fCf<-¼,^a [jfx^f€ fgfCE□[fX DLL] f{fbfNfx,É“ü—í,³,è,Ü,·□B

fgfCE[fX,ìÝ'è•íX,žó,~“ü,ê,ÄA[ODBC ff[f^ f[fX fAfhf~fjfXfgfCE[f^] f_fCfAfO
f{fbfNfX,ð•Â,¶,é,É,íA[OK] ,ðfNfŠfbfN,µ,Û,·B

fgfCE[fX,ìÝ'è•íX,đŽó,~“ü,ê,,ÉA[ODBC ff[f^ f[fX fAfhf~fjfXfgfCE[f^] f_fCfAf[fO
f{fbfNfX,đ•Â,¶,é,É,íA[fLfff“fZf<] ,đfNfŠfbfN,μ,Ü,·B

[ODBC ff[f^f\][fX fAfhf~fjfXfgfCE[f^] f_fCfAfO
f{fbfNfX,ð•Â,¶,„É[AfgfCE[fX,ìŸ'è•ĭX,ðŽó,~“ü,ê,ééé¶,íA[XV]
,ðfNfŠfbfN,μ,Û,·B•ĭX,ª^èØs,í,ê,Ä,†,È,¯,ê,ĭA,±,ĭf{f^f“,í'W[F•\Ž,³,ê,Û,·B

[ftf@fCf< ff[]f^ f[]fX] f^fu

ftf@fCf< DSN ,ðŽ,Âff[]f^ f[]fX,ÉÜ'±,μ,Û,·[]B,±,ê,í[]A"~,¶fhf
 %ofCfo,ðfCf"fxfg[]f<,μ,½ft[]fU[]['S^ð,æ<α—L,~,æ,ÑfAfNfZfX,·,éftf@fCf<'P^Ê,ìff[]f^ f[]fX,Â,·[]B,±
 ,ê,ç,ìff[]f^ f[]fX,ð[]Aft[]fU[][,É'í,μ,Ä[]ê—p,É,·,é•K—v,àfRf"fsf...[]f^,É'í,μ,Äff[]fj<,É,·,é•K—
 v,à, ,è,Û,¹,ñ[]B

fjfvfVfjf"	[]à-¾
[ftf@fCf< ff[]f^ f[]fX] f{fbfNfX	[ff[]f^f[]fX,ì[]é[]Š] f{fbfNfX,Â•\ Ž!,³,ê,éftfHf<f_,É,Â,ç,Ä[]A,»,± ,ÉSi"[][,³,ê,½ftf@fCf< DSN ,ÆfTfufHf<f_,ð,·,×,Ä•\ Ž!,μ,Û,·[]BDSN ,ðf_fuf<fNfŠfbfN,·,é,Æff[]f^ f[] fX,ÉÜ'±,μ,Û,·[]B
[ff[]f^f[]fX,ì[]é[]Š]	fjfcf"fg ftfHf<f_,ð•\Ž!,μ,Û,·[]B,»,ì %º,ìfEjBf"fhfE,É,í[]A]fjfcf"fg ftfHf<f_,ìftfufHf<f_,Æftf@fCf< DSN ,ª•\Ž!,³,ê,Û,·[]BfefLfxfg f{fbfNfX,ì %ºE'α,É, ,é%ºCEü,«- î^ó,ðfNfŠfbfN,·,é,Æ[]AffBfCefNfgfŠ[] \'ç'S'ì,ª•\Ž!,³,ê,Û,·[]B
[1 ,Â[]ä,ìftfHf<f_,Ö (fAfCfRj")]	[ff[]f^f[]fX,ì[]é[]Š] ,É•\ Ž!,³,ê,½ftfHf<f_,ðCE>[]ÿ,ìftfHf<f_,ì 1 ,Â[]ä,ìftfHf<f_,É•ì[]X,μ,Û,·[]B
[DSN-¾]	ftf@fCf< ff[]f^ f[]fX fŠfxfg't,É'í'ð,³,ê,½ftf@fCf< DSN - ¾,ð•\ Ž!,·,é,©[]A,Û,½,í[]V,μ,çftf@fCf< DSN -¾,ð"ü—í,μ,Û,·[]B
[[]V<K[]ì~]	[]V,μ,ftf@fCf< ff[]f^ f[]fX,ð'Ç %ºÁ,μ,Û,·[]B,± ,ìf{f^f",ðfNfŠfbfN,·,é,Æ[]A[ff[]f^ f[] fX,ì[]V<K[]ì~] f_fCfAf[]fO f{fbfNfX,ªfhf%ofCfo,ìfŠfxfg,É,Â,ç ,Â•\Ž!,³,ê,Û,·[]B[]V,μ,çftf@fCf< ff[]f^ f[]fX,ð'Ç%ºÁ,·,éfhf %ofCfo,ð'í'ð,μ,Û,·[]B[Žÿ,Ö] ,ð'í'ð,·,é,Æ[]Aftf@fCf< DSN ,É'í,·,éfl[]f[]f[]fh,ðŽw'è,Â,«,Û,·[]B
[OK]	[ff[]f^f[]fX,ì'í'ð] f_fCfAf[]fO f{fbfNfX,ð•Á,¶[]AfŠfxfg't,ÂfnfCf %ofCfg•\Ž!,³,ê,½ftf@fCf< ff[]f^ f[] fX ,Û,½,í [DSN -¾] f{fbfNfX,É"ü —í,μ,½ftf@fCf< ff[]f^ f[]fX,ÉÜ'± ,μ,Û,·[]B [ftf@fCf< ff[]f^ f[]fX] f{fbfNfX,É'í,·,é•ì[]X,ð"K— p,·,é,½,ß,É[]A[OK] ,ðfNfŠfbfN,·,é•K

—v, í, , è, Û, ¹, ñ □ BfŠfXfg
 f{fbfNfX, É'í, , é•ï □ X, í □ A [ff □ [f^ f
 □ [fX, ìfZfbfgfAfbfv] f_fCfAf □ fO
 f{fbfNfX, Å [OK] f{f^f",^a
 %oÿ,³, è, ½Žž" _ , Å "K—p,³, è, Ä, ç, Û, · □ B

[fLfff"fZf<] ftf@fCf< ff □ [f^ f □ [fX, É □ Ú' ±, ¹, , , É
 [ff □ [f^ f □ [fX, ì'í'ð] f_fCfAf □ fO
 f{fbfNfX, ð•Å, ¶, Û, · □ B [fLfff"fZf<]
 ,^aí'ð,³, è, ½, Æ, µ, Ä, à □ Aftf@fCf<
 ff □ [f^ f □ [fX
 fŠfXfg, Ö, ì•ï □ X, ìžæ, è □ Á,³, è, Û, ¹, ñ □ B

[fwf<fv] fwf<fv%œ—É, ð•\Ž!, µ, Û, · □ B

[f}fVf" ff □ [f^ f □ [fX] f^fu

ft □ [fU □ [DSN , Û, ½, ìfvfXfef€ DSN , ðž □ , Åff □ [f^ f □ [fX, É □ Ú' ±, µ, Û, · □ B }fVf" ff □ [f^ f □ [fX, í, ±
 , ìf}fVf", É € Å—L, Å, , è □ A < α—L, ³, è, Û, ¹, ñ □ B ft □ [fU □ [ff □ [f^ f □ [fX, í, ±, ìf}fVf" , ìft □ [fU □ [, É € Å—L, Å, · □ B, ±
 , ìf}fVf" , ì, ·, x, Ä, ìft □ [fU □ [A, Û, ½, ìfvfXfef€-f □ fCfh ft □ [fX, ìfvfXfef€ ff □ [f^ f □ [fX, ðžg—p, Å, «, Û, · □ B

fìfvfVfj" "

□ à-¾

[f}fVf" ff □ [f^ f □ [fX] ft □ [fU □ [DSN , ÆfvfXfef€ DSN , ì'è
 f{fbfNfX — (DSN , ì-
 ¼' O, Æf^fCfv, ðŠÜ, p) □ B DSN
 , ðf_fuf<fNfŠfbfN, , , é, Æ ff □ [f^ f
 □ [fX, É □ Ú' ±, µ, Û, · □ B

[□V<K□ì□-] □V, µ, ftf@fCf< ff □ [f^ f □ [fX, ð'Ç
 %oÁ, µ, Û, · □ B, ±
 , ìf{f^f", ðfNfŠfbfN, , , é, Æ □ A [ff □ [f^ f
 □ [fX, ì □ V<K □ ì □ -] f_fCfAf □ fO
 f{fbfNfX, ^a•\
 Ž!, ³, è, Û, · □ B □ V, µ, çftf@fCf< ff □ [f^ f
 □ [fX, ð'Ç %oÁ, , éfhf
 %ofCfo, ð'í'ð, µ, Û, · □ B [Žÿ, Ö]
 , ð'í'ð, , , é, Æ □ ADSN
 , É'í, , éfL □ [f □ □ [fh, ^a"K □ Ø, Å, , é, ±
 , Æ, ðf`fFfbfN, Å, «, Û, · □ B

[OK] [ff □ [f^ f □ [fX, ì'í'ð] f_fCfAf □ fO
 f{fbfNfX, ð•Å, ¶, é, Æ □ AfŠfXfg't, Åfnf
 Cf%ofCfg•\Ž!, ³, è, ½ftf@fCf< ff □ [f^
 f □ [fX, É □ Ú' ±, µ, Û, · □ B

[f}fVf" ff □ [f^ f □ [fX]
 fŠfXfg, É'í, , é•ï □ X, ð"K—p, , , é, ½, ß, É
 [OK] , ðfNfŠfbfN, , , é•K—
 v, í, , è, Û, ¹, ñ □ BfŠfXfg, É'í, , é•ï □ X, í □ A
 [ff □ [f^ f □ [fX, ìfZfbfgfAfbfv]
 f_fCfAf □ fO f{fbfNfX , Å [OK]
 f{f^f", ^a%oÿ,³, è, ½Žž" _ , Å "K—
 p,³, è, Ä, ç, Û, · □ B

[fLfff"fZf<] ftf@fCf< ff □ [f^ f □ [fX, É □ Ú' ±

,¹,²,É□A[ff□[f^f□[fX,ì'í'ð]
f_fCfAf□fO
f{fbfNfX,ð•Â,¶,Ü,·□B[fLfff“fZf<]
,^aí'ð,³,é,¹/₂,Æ,μ,Ä,à□Af}fVf“ ff□[f^
f□[fX
fŠfXfg,Ö,ì•ï□X,íŽæ,è□Á,³,é,È,ç,±
,Æ,É'□^Ó,μ,Ä,,³/₄,³,ç□B
[fwf<fv]
fwf<fv%œ-Ê,ð•\Ž!,μ,Ü,·□B

,±,ífŠfXfg,í□A[ff□[f^f□[fX,ì□é□Š] f{fbfNfX,Â•\Ž!,³,é,éftfHf<f_,É,Â,ç,Ä□A,»,±,ÉŠi”[,³,é,¹/₂ftf@fCf< DSN
,ÆfTfufthf<f_,ð,·,x,Ä•\Ž!,μ,Ü,·□BDSN ,ðf_fuf<fNfŠfbfN,·,é,Æff□[f^ f□[fX,É□Ú'±,μ,Ü,·□B

fjfCef"fg ftfHf<f_đ•\Ži,μ,Ü,·□B,»i%°º,İfEfBf"fhfE,É,Í□AjjfCef"fg ftfHf<f_İfTfuftfHf<f_Æftf@fCf< DSN ,ª•\ Ži,³,ê,Ü,·□BfefLfXfg f{fbfNfX,İ%°E'ı,É, ,é%°ºCÈü,«-î^ó,đfNfŠfbfN,·,é,Æ□A,»İfffBfCefNfgfŠ□\č'S'İ,ª•\ Ži,³,ê,Ü,·□B

[ff[f^f^fX,ìéš] f{fbfNfX,É•\Ž!,³,è,½ftfHf<f_đA'¼ÚCE»Ÿ,ìftfHf<f_ì 1
,Âă,ìftfHf<f_É•íX,μ,Ü,·B

ftf@fCf< ff[]f^ f[]lfX fŠfXfg't,É'l'ð,³,è,½ftf@fCf< DSN -¼,ð•\Ž!,·,é,©[]A,Ü,½,Í []V,μ,ϕftf@fCf< DSN -¼
,ð“ü—Í,μ,Ü,·[]B

fŠfXfg't,ÅfnfCf%ofCfg•\Ž!,³,ê,½ftf@fCf< ff□lf^ f□lfX,É□Ú'±,·,é,© ,Ü,½,Í [DSN -¼] f{fbfNfX't,É"ü—
Í,μ,Ü,·□B

V,μ,ftf@fCf< ff[]f^ f[]fX,đ'Ç%oÁ,μ,Ü,·B,±,ìf{f^f“,đfNfŠfbfN,·,é,ÆA[ff[]f^ f[]fX,ìV<K[]i~]
f_CfAf[]fO f{fbfNfX,ª•\Ž,³,è,Ü,·B[]V,μ,çftf@fCf< ff[]f^ f[]fX,đ'Ç%oÁ,·,éfhf%ofCfo,đ'í'đ,μ,Ü,·B[ŽŸ,Ö]
,đ'í'đ,·,é,ÆAftf@fCf< DSN ,É'í,·,éL[]f[]f[]fh,đŽw'è,Å,«,Ü,·B

[ff[]f^ f[]fX,ì'ì'ð] f_fCfAf[]fO f{fbfNfX,ð•Â,¶,,.É[]AfŠfXfg't,ÅfnfCf%ofCfg•\Ž!,³,è,½ftf@fCf< ff[]f^ f[]fX,É[]Ú'±,.,é,©,Ü,½,Í [DSN -¼] f{fbfNfX't,É"ü—í,μ,Ü,·[]B

[ftf@fCf< ff[]f^ f[]fX] fŠfXfg,É'í,.,é•ï[]X,ð"K—p,.,é,½,ß,É [OK] ,ðfNfŠfbfN,.,é•K—v,í, ,è,Ü,¹,ñ[]BfŠfXfg,É'í,.,é•ï[]X,í[]A[ff[]f^ f[]fX,ìfZfbfNfX,Å [OK] f{f^f",ª%oÿ,³,è,½Žž"_,Å"K—p,³,è,Ä,ç,Ü,·[]B

ftf@fCf< ff[]f^ f[]fX,É[]Ú'±,¹,,É [ff[]f^f[]fX,ì'í'ð] f_fCfAf[]fO
f{fbfNfX,ð•Á,¶,Ü,·[]BfLfff“fZf<,²'í'ð,³,è,½,Æ,μ,Ä,à[]Af}fVf“ ff[]f^ f[]fX fŠfXfg,Ö,ì•ï[]X,íŽæ,è[]Á,³,è,È,¢
,±,Æ,É'[]^Ó,μ,Ä,,¾,³,¢[]B

ft[]fU[] DSN ,ÆfvfXfef€ DSN ,î^è—— (DSN ,î-¼'O,Æf^fCfv,ðŠÜ,p)[]BDSN ,ðf_fuf:fNfŠfbfN,·,é,Æ
ff[]f^ f[]fX,É[]Ú'±,µ,Û,·[]B

□V,μ,f}fVf“ ff□f^ f□[fX,δ'Ç%Á,μ,Ü,·□B,±,ìf{f^f“,đfNfŠfbfN,·,é,Æ□A[ff□f^ f□[fX,ì□V<K□ì□¬]
f_CfAf□fO f{fbfNfX,ª•\Ž,³,è,Ü,·□B□V,μ,¢ft□[fU□[ff□f^ f□[fX,Ü,½,ífVfXfef€ ff□f^ f□[fX,δ'Ç
%Á,·,éfhf%ofCfo,đ'í'đ,μ,Ü,·□B[ŽŸ,Ö] ,đ'í'đ,·,é,Æ□ADSN ,É'í,·,éfl□[f□□[fh,ª“K□Ø,Á, ,é,±
,Æ,đf`fFfbfN,Á,«,Ü,·□B

[ff][f^f][fX,ì'ì'ð] f_fCfAf[fO f{fbfNfX,ð•Â,¶,.,É□AfŠfXfg't,ÅfnfCf%ofCfg•\Žì,³,ê,½ftf@fCf< ff□[f^ f
□[fX,É□Ú'±,μ,Ü,·□B

[f}fVf“ ff□[f^ f□[fX] fŠfXfg,É'í,·,é•İ□X,ð“K—p,·,é,½,ß,É□A[OK] ,ðfNfŠfbfN,·,é•K—
v,í, ,è,Ü,¹,ñ□BfŠfXfg,É'í,·,é•İ□X,í□A[ff□[f^ f□[fX,ìfZfbfgfAfbfv] f_fCfAf[fO f{fbfNfX,Å [OK] f{f^f“,ª
%oÿ,³,ê,½Žž“_Å“K—p,³,ê,Ä,ç,Ü,·□B

ftf@fCf< ff[]f^ f[]fX,É[]Ú'±,¹,,É [ff[]f^f[]fX,ì'í'ð] f_fCfAf[]fO
f{fbfNfX,ð•Ã,¶,Ü,·[]B,à,µfLfff“fZf<,³'í'ð,³,è,½,Æ,µ,Ä,à[]Af}fVf“ ff[]f^ f[]fX
fSfXfg,Ö,ì·ï[]X,íŽæ,è[]Á,³,è,È,ç,±,Æ,É'[]^Ó,µ,Ä,,¾,³,ç[]B

API

fAfvfŠfP[fVf#f" fvf[fOf%of~f"fO fCf"f^[ftfFfCfX,ì—à]BAccess ,ì,æ,α,ÈfAfvfŠfP[fVf#f",àf[fCfxf< fT[frfX,ð—v<[μ,½,èŽÀ[s,·,é,½,β,ÉŽg—p,·,éf<[f`f",ìfZfbfg,Å,·B

• **ŹšfZfbfg**

• ŹšfZfbfg,Æ,ÍA•ŹšA“ŹšA<L†,Å\¬,³,é 1 ‘g,Ý,ìW‡,ÅA,» ,ì\¬—v’f,íY’è,³,é,Ä,†
,é‘,“,æ,ŃŒ¼ŒÉ,É,æ,è^Ù,È,è,Ü,·B,»,é,¼,é,ì•ŹšfZfbfg,íAfr[fh
fy[fW,ÆŒÄ,î,é,éfe[fuf<,Á’è`³,é,Ä,†,Ü,·BOEM •ŹšfZfbfg,Æ,íAANSI •ŹšfZfbfg,ðœ,-
A,·,×,Ä,ì•ŹšfZfbfg,ðŽw,μ,Ü,·BANSI •ŹšfZfbfg (fr[fh fy[fW 1007) ,íAWindows ,ÄŽg—p,³,é,Ä,†
,é•ŹšfZfbfg,Ä,·B

“KřfCfxf<

fAfvfŠfP[fVf#f“ ,ì†,É,íA^è’è,ì<@“\fCfxf<,Ü,½,í“KřfCfxf<,đfTf|[]fg,.,éfhf%ofCfo,ì,Ý,đŽg—p,.,é,à,ì,ª, ,è ,Ü,·B,½,Æ,ì,íAfhf%ofCfo,əff[f^ f[]fX,Ö,ìfpfXf[]f[h,đft[]fU[][,É—v<[] ,Å,«,é,±,Æ,đ•K— v,Æ,.,éAfvfŠfP[fVf#f“ ,ª, ,è,Ü,·B,±,ì<@“\,íAAPI ,ìfCfxf< 1 “KřfCfxf<,ÉŠÜ,Ü,è,Ä,ç,Ü,·B

Še ODBC fhf%ofCfo,íA3 ,Á,ì API fCfxf< (fRfA[]AfCfxf< 1[]AfCfxf< 2) ,ì,ç,, ,è,©,Æ[]A3 ,Á,ì SQL •¶-@ ([]Å[]-[]AfRfA[]AŠg’£) ,ì,ç,, ,è,©,É“Křf,μ,Ä,ç,Ü,·Bfhf %ofCfo,íA,» ,è,¼,è,ì•W[]fCfxf<,æ,è,à[]ã,É, ,éCfxf<,ì<@“\,đ^è•”fTf|[]fg,.,é,±,Æ,ª, ,è,Ü,·B

ff[]f^ f[]fX

ff[]f^ f[]fX,Æ,í[]Aft[]fU[][,afAfNfZfX,μ,æ,π,Æ,·,éff[]f^,»,ì,à,ì,Æ[]A,»,ìff[]f^,ðŽæ“¾,·,é,½,ß,É•K—
v,Èî•ñ,ì—¼•û,ðŽw,μ,Û,·[]B^È%°°,Éff[]f^ f[]fX,ì—á,ðŽ!,μ,Û,·[]B

- SQL Server ff[]f^fx[]fX[]A,»,ê,â•Û‘¶,³,ê,Ä,ç,éft[]fo[][]A,»,ìft[]fo[],ðfAfNfZfX,·,é,½,ß,ÉŽg—
p,·,élfbfqf[][]fN
- fAfNfZfX,μ,½,ç dBASE ,È,Ç,ìftj@fCf<,ðŠÛ,bftjHf<f_

DBMS

ff[]f^fx[]fXŠÇ—[]VfXfef€,i—²CEê[]Bff[]f^,i[]-[]A•²[]í[]ACEÿ[]ö[]A[]X[]V[]AŽæ“¾,ð[]s,²,½,ß,ÉŽg—
p,·,é]ft]gfE]F]f]A,ì,±,Æ,Å,·[]B

DDL

ff[f^'è<`E¼Eê,ì—ªEê[]Bff[f^ flfufWjfFfNfg,â,»,ì'@[]«,ð'è<` ,;é,½,ß,ÉŽg—p,³,ê,é SQL
fXfe[]lfgf[]fg,ì,±,Æ,Å,·[]B,½,Æ,!,î[]ACREATE TABLE[]ADROP VIEW[]AGRANT ,È,Ç,lfXfe[]lfgf[]fg,ª,±
,ê,É, ,½,è,Û,·[]B

DLL

f_fCfif~fbfN fšf“fN f%ofCfuf%ofš,ì—³CEê□B<π'Ê,ìf^fXfN,ðžÀ□s,.,é,½,ß□A,ç,,Â,©,ìfAfvfššfP□[fVf†f“ ,Åžg
—p,³,ê,é 1 'g,Ý,ìf<□[f`f“,ì,±,Æ□BODBC fhf%ofCfo,à DLL ,ì 1 ,Â,Â,·□B

DML

ff[f^'€]\CE¾CEê,ì—ªCEêBff[f^,ð'€\,.,é,½,ß,ÉŽg—p,ª,ê,é SQL fXfe[fgf[f'fg,ì,±
,Æ,Ä,·B,½,Æ,ì,ÎAUPDATEAINSERTADELETE ,È,Ç,lfXfe[fgf[f'fg,ª,±,ê,É, ,½,è,Ü,·B

ODBC fhf%oCfo f}fi[fWff

ODBC fhf%oCfo,Ö,lfAfNfZfX,ð%oÂ"\,É,·,é DLL ,ì,±,Æ,Å,·B

ODBC fhf%ofCfo

Excel ,l,æ,x,È ODBC 'í%žfAfvfšfP[fVf+f“ ,a“Á'è,lff[f^ f[fX,ðfAfnfZfX,·,é,½,ß,ÉŽg—p,·,é DLL ,l,± ,Æ,Å,·BSQL Server ,l,æ,x,Èff[f^fx[fXŠÇ—fvfXfef€ (DBMS) ,Å,ÍA,»,é,¼,ê^Ù,È,éfhf%ofCfo,a•K— v,É,È,è,Ü,·B

SQL

□`¢%»fNfGfŠ□[CE¾4CEê,ì—ªCEê□Bff□[f^,ìŽæ“¾4□A□X□V□AŠÇ—□,ð□s,π,½,ß,ÉŽg—p,·,éCE¾4CEê,ì,±,Æ,Å,·□B

SQL fXfe [fgf]f“fg

SQL ,Å‘, ©, ê, Ä, ç, éRf}f“fh A, Â, Ü, è^è”Ê, ÉfNfGfŠ [,ÆĀ, Î, é, é, à, Ì, Å, · BSQL

fXfe [fgf]f“fg, É, Í ASELECT ADELETE ACREATE TABLE , Ì, æ, x

, É AŽÀ s, ·, é‘€ i, ðŽw’è, ·, é, à, Ì, à AŽÀ s, ·, é‘€ i, Ì’Í Û, Æ, È, éfe [fuf, â—ñ, ðŽw’è, ·, é, à, Ì A, » , é, É‘€ i, É“K

—p, ³, è, é ðĀ [, ðŽw’è, ·, é, à, Ì, È, Ç, ², , è, Û, · B

•İŠ·fİfVfVf#f“

fgf%of“fXfCE[f^,əff[f^,đ•İŠ·,·,é•û-@,đŽw'è,·,élfVfVf#f“,ì,±
,Æ,Å,·B,½,Æ,ì,îA•İŠ·fİfVfVf#f“,ì't,É,íAfgf%of“fXfCE[f^,ə^Ù,È,é•ŋŽšfZfbfg,İŠÔ,Å•ŋŽš—
ňff[f^,đ•İŠ·,·,é,Æ,«A'íÙ,Æ,È,é•ŋŽšfZfbfg,đŽw'è,·,é,à,ì,ª, ,è,Û,·B,Û,½A^Ã+%%»,â^Ã+%%»,ì
%%đœ,ì,½,β,ÉŽg—p,·,éfl[.đŽw'è,·,é,à,ì,à, ,è,Û,·B

fgf%of“fXfCE[]f^

Access ,ì,æ,π,ÈfAfvfŠfP[]fVf#f“,Æff[]f^ f[]fX,ìŠÔ,Å^ø,«“n,³,ê,é,·,×,Ä,lf[]f^,ð•İŠ·,·,é,½,ß,ì DLL ,ì,±
,Æ,Å,·[]Bfgf%of“fXfCE[]f^,ì[]Å,à^è”È“l,ÈŽg—p•û-@,Æ,μ,Ä[]A^Ù,È,é•¶ŽšfZfbfg,ìŠÔ,Å•¶Žš—
ñff[]f^,ð•İŠ·,·,é,Æ,ç,π,à,ì,², ,è,Ü,·[]B,Ü,½[]Afgf%of“fXfCE[]f^,É,æ,è[]A^Ä[]t%o»,Æ^Ä[]t,ì
%oð[]œ[]A^³[]k,Æ^³[]k,ì%oð[]œ,È,Ç,ð[]s,π,±,Æ,à,Å,«,Ü,·[]B

