

**[ft][fU][ DSN] f^fu**

ft[fU][ DSN ,É,Â,ç,Äff[f^ f][fX,ì'Ç%ÁAíœAñ- ,ðs,ç,Ü,·B,±,ê,ç,ìff[f^ f][fX,ìfRf"fsf...  
 [f^ ,É'í,μ,Äf[f]f<,É,È,èACE»Ý,ìft[fU][,ì,Ý,Žg—p,Ä,«,Ü,·B

<b>fifvfVfj“</b>	<b>□à-¾</b>
[ft][fU][ ff[f^ f][fX] f{fbfNfX	DSN ,ì-¼'O,Æ,»,ê,É'í%ž,·,éfhf %ofCfo,ðŠÜ,p□Aft□[fU][ DSN ,ì'ê— ,Ä,·Bft□[fU][ DSN ,ðf_fuf<fNfŠfbfN,·,é,Æ□Afhf%ofCfoEÄ— L,ìff[f^ f][fX,ìfZfbfgfAfbfv f_fCfAf□fO f{fbfNfX, <sup>a</sup> ·\Žì, <sup>3</sup> ,ê,Ü,·B
[□ñ-]	Šù'¶,ìft[fU][ ff[f^ f][fX,ìñ □- ,ð·ì□X,·,éfhf%ofCfoEÄ—L,ìff[f^ f] □[fX,ìñ- f_fCfAf□fO f{fbfNfX,ð·\ Žì,μ,Ü,·B[□ñ-] ,ðNfŠfbfN,·,é'O,É□A'í□Ü,Æ,È,éft□[fU][ ff[f^ f][fX,ðfŠfXfg f{fbfNfX,©,ç'ì'ð,μ,Ä,·,·K—v, <sup>a</sup> , ,è,Ü,·B
[ 'Ç%Á	□V,μ,ft□[fU][ ff[f^ f][fX,ð'Ç %Á,μ,Ü,·B,± ,ìf{f^f“ ,ðNfŠfbfN,·,é,Æ□A[ff[f^ f] □[fX,ì□V<Kì□-] f_fCfAf□fO f{fbfNfX, <sup>a</sup> ·\ Žì, <sup>3</sup> ,ê,Ü,·Bft□[fU][ ff[f^ f][fX,ð'Ç %Á,·,éfhf%ofCfo,ð'ì'ð,μ,Ü,·B[Š@- <sup>1</sup> ] ,ð'ì'ð,·,é,Æ□A,»,ìfhf%ofCfoEÄ— L,ìff[f^ f][fX,ìfZfbfgfAfbfv f_fCfAf□fO f{fbfNfX, <sup>a</sup> ·\Žì, <sup>3</sup> ,ê,Ü,·B
[□íœ]	Šù'¶,ìff[f^ f][fX,ðíœ,μ,Ü,·B[□íœ] ,ðNfŠfbfN,·,é'O,É□Aíœ,·,éft□[fU][ ff □[f^ f][fX,ðfŠfXfg f{fbfNfX,©,ç'ì'ð,μ,Ä,·,·K—v, <sup>a</sup> , ,è,Ü,·B
[OK]	[ODBC ff[f^ f][fX fAfhf~fjXfgfœ□[f^] f_fCfAf□fO f{fbfNfX,ð·Ä,¶,Ü,·B[ft□[fU][ ff[f^ f] □[fX] f{fbfNfX,É'í,·,é·ì□X,ð“K— p,·,é,½,ß,É□A[OK] ,ðNfŠfbfN,·,é·K— v,í, ,è,Ü, <sup>3</sup> ,ñ□BfŠfXfg f{fbfNfX,É'í,·,é·ì□X,í□Aff□[f^ f] □[fX,ìfZfbfgfAfbfv f_fCfAf□fO f{fbfNfX,Ä [OK] , <sup>a</sup> %Ÿ, <sup>3</sup> ,ê,½ŽŽ“ _ ,Ä“K—p, <sup>3</sup> ,ê,Ä,ç ,Ü,·B
[fLfff“fZf<]	[ODBC ff[f^ f][fX fAfhf~fjXfgfœ□[f^] f_fCfAf□fO f{fbfNfX,ð·Ä,¶,Ü,·B[fLfff“fZf<] , <sup>a</sup> ì'ð, <sup>3</sup> ,é,½,Æ,μ,Ä,à□A[ft□[fU][ ff[f^ f] □[fX] f{fbfNfX,Ö,ì)·ì□X,íŽæ,è□Á, <sup>3</sup> ,ê,È,ç ,±,Æ,É'í^Ó,μ,Ä,,¾, <sup>3</sup> ,ç□B
[fwf<fv]	fwf<fv%œ-È,ð·\Žì,μ,Ü,·B

**[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

<b>fifvfVfjf"</b>	<b>□à-¾</b>
[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~fjfXfgfCE□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□Aff□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~fjfXfgfCE□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,íŽæ,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,ìfhf%ofCfo,ª•\Ž!,³,è,Ü,·[]B

<b>fifvfVfjf“</b>	<b>[]à-¾</b>
[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%ïŽÐ- 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,<sup>a</sup> ODBC ŠÖ" ,ìCEÄ,Ño,μ,ðfgfCE[fX ('ÇÖ) ,.é•û-  
@,ðŽw'è,μ,Û,·B[]žžfgfCE[fX^è"x,ì,Ý,ìfgfCE[fX^A" @ "ìfgfCE[fX^A,Û,½,ìfjXf^fe  
fgfCE[fX,ðŽw'è,À,«,Û,·B

### fifvfjtf"

à-¾

[fgfCE[fX,ìŽÀs]

fgfCE[fX,ð—  
LCEø,É,μ[]AfgfCE[fX,ðŠ]Žn,·,é^fCf~f" f  
O,ðCE^,ß,Û,·B,±  
,é,ç,ìfRf"fgf[]f<,íA[]Ú'±,²s,í,é,Ä,ç  
,È,ç,Æ,«,É,ì,Ý[]Y'è,À,«,Û,·B  
[fgfCE[fX,μ,È,ç]  
,ð'ìð,·,é,Æ[]AfgfCE[fX,²-  
³CEø,É,È,è,Û,·B  
[í,ÉfgfCE[fX]  
,ð'ìð,·,é,Æ[]Af}fVf",Às,í,é,é,·,×,Ä,ì[]Ú'  
±,É,Ä,ç  
,Ä[]AfgfCE[fX,²[]žžž © " @ "ì,ÉŽÀs,³,é,  
Û,·B

[fgfCE[fX,ìŠ]Žn]

[^è"x,ì,ÝfgfCE[fX] ,ð'ìð,·,é,Æ[]AZŽ  
%ñ,ì[]Ú'±  
,ÉCEÀ,èfgfCE[fX,²ŽÀs,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,í[]A[ODBC  
ff[]f^f[]fX fAfhf~fjXfgfCE[f^]  
f\_fCfAf[]fO f{fbfNfX,²•\Žì,³,é,Ä,ç  
,é[]Á't,ÉŽÀs,³,é,Û,·B" @ "ìfgfCE[fX,í[]  
A[]Ú'±,ì—L-³,É,©,©,í,ç,·, —  
LCEø,É,À,«,Û,·B,±  
,é,ðNfŠfbfN,·,é,Æ[]A[fgfCE[fX,ìŠ]Žn]  
f{f^f",² [fgfCE[fX,ì'âŽ~]  
f{f^f",É•ì,í,è,Û,·B[fgfCE[fX,ì'âŽ~]  
f{f^f",ðNfŠfbfN,·,é,©[]A[ODBC ff[]f^f[]  
[]fX fAfhf~fjXfgfCE[f^] f\_fCfAf[]fO  
f{fbfNfX,ð•Ä,¶,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<-¾,ð•\  
Žì,μ,Û,·BfvfXfef€î•ñ,©,çŠù'è,ìfpfX,Æ  
ftf@fCf<-¾ (sql.log)  
,²Žæ,ç,é,Û,·,²[]A•É,ìfpfX,Æftf@fCf<-  
¾,ð"ü—í,·,é,©[]A[ŽQÆ]  
f{f^f",ðNfŠfbfN,μ,ÄftfHf<f\_,Æftf@fCf<,  
ð'ìð,·,é,±  
,Æ,À[]A•É,ìftf@fCf<,ðŽw'è,À,«,Û,·B

[ŽQÆ]

f}fVf",ìftfHf<f\_,ðŽQÆ,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&lt;,ð</p> <p>ODBCTRAC.DLL</p> <p>ftf@fCf&lt;^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&lt;,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&lt;-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&lt;-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&lt;fv%œ-É,ð•\Ž ,μ,Û,·□B</p>

,±,İfŠfXfg,ÍADSÑ ,İ-¼'O,Æ,» ,ê,É'Í%ž, ,éfhf%ofCfo,È,ÇAf+[]fU[][ DSN ,đ,·,×,Ä·\  
Ž,μ,Û,·Bft[]fU[] fff[]f^ f[]fX,É'Í,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•î[]X, ·, éfhf%ofCfoÆÅ—L, ìff[]f^ f[]fX, ìfZfbfgfAfbfv f\_fCfAf[]fO f{fbfNfX, ð•\  
Ž|, ·, é, É, í[]A[[]\[]¬], ðfNfŠfbfN, μ, Û, ·[]B'î[]Û, Æ, È, éff[]f^ f[]fX, ðfŠfXfg f{fbfNfX, ©, ç'í'ð, μ, Ä, ", ·K—  
v,<sup>a</sup>, ,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,<sup>a</sup>•\Ž|,<sup>3</sup>,é,Ü,·□Bff□[f^ f□[fX,đ'Ç%oÁ,·,éfhf%ofCfo,đ'l'đ,μ,Ä [Š@-<sup>1</sup>] ,đ'l'đ,·,é,Æ□A,»},ìfhf  
%ofCfoĀ—L,ìff□[f^ f□[fX,ìfZfbfjgAfbfv f\_fCfAf□fO f{fbfNfX,<sup>a</sup>•\Ž|,<sup>3</sup>,é,Ü,·□B

Šù'¶,ìff[]f^ f[]fX,đfŠfXfg f{fbfNfX,©,ç[]í[]œ,·,é,É,í[]A[[]í[]œ] ,đfNfŠfbfN,μ,Û,·[]B[]í[]œ,·,éff[]f^ f  
[]fX,đfŠfXfg f{fbfNfX,©,ç'l'đ,μ,Ä,¨,•K—v,ª,è,Û,·[]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,<sup>1</sup>,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,<sup>3</sup>,ê,½Žž“\_„Å“K—p,<sup>3</sup>,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<] ,ðfNfŠfbfN,³,ê,Ä,àAfff[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] ,đNfŠfbfN,μ,Ü,·□B

,±,İfŠfXfg,İADSÑ ,İ-¼'O,Æ,» ,é,É'Í%ž, ,éfhf%ofCfo,đ,Í,Ŕ,ßAfvfXfef€ DSN ,đ, ,x,Ä•\  
Ž,μ,Û,·BfvfXfef€ ff[]f^ f[]fX ,É'Í,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,É,éfVfXfef€ ff[]f^ f[]fX,ðfŠfXfg  
f{fbfNfX,©,ç'í'ð,μ,Ä,¨,•K—v,<sup>a</sup>, ,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,<sup>a</sup>•\Žì,<sup>3</sup>,è,Ü,·□BfVfXfef€ ff□[f^ ∫□[fX,đ'Ç%Á,·,éfhf%ofCfo,đ'ì'đ,μ,Ä [Š@—<sup>1</sup>]  
,đ'ì'đ,·,é,Æ□A,»,ìfhf%ofCfoÆÅ—L,ìff□[f^ ∫□[fX,ìfZfbfgfAfbfv f\_ÇfAf□fO f{fbfNfX,<sup>a</sup>•\Žì,<sup>3</sup>,è,Ü,·□B

Šù'ŋ,ŋVfXfef€ 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,<sup>a</sup>, ,è,Û,·[]B

,±,lfŠfXfg,íA[ff[f^ f[fX,ìéŠ] f{fbfNfX,Å•\Ž!,³,ê,éftfHf<f\_É,Â,ç,ÄA,»,±,ÉŠi"[,³,ê,½ftf@fCf< DSN  
,ÆfTfufHf<f\_ð,·,×,Ä•\Ž!,μ,Û,·Bftf@fCf< DSN ,đf\_fuf<fNfŠfbfN,·,é,ÆAfhf%oofCfoĀ—L,ìff[f^ f\  
[fX,lfZfbfgfAfbfv f\_fCfAf[]O f{fbfNfX,ª•\Ž!,³,ê,Û,·B

Šù'¶,ìftj@fCf< ff[]f^ f[]fX,ì[]\[]¬,đ•ĭ[]X,;éfhf%ofCfoĈĀ—L,ìff[]f^ f[]fX,ìfZfbfgfAfbfv f\_fCfAf[]fO  
f{fbfNfX,đ•\Ž|,;é,É,í[]A[[]\[]¬] ,đfNfŠfbfN,μ,Û,·[]B'í[]Û,Æ,È,éftj@fCf< ff[]f^ f[]fX,đfŠfXfg  
f{fbfNfX,©,ç'í'đ,μ,Ä,¨,•K—v,<sup>a</sup>, ,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,·,éfL[]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,<sup>a</sup>, ,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 ,<sup>a</sup>•\ Ži,<sup>3</sup>ê,Ü,·□B□%ŠúŸ’è,Å,Í□Afvfxfef€□i•ň,ÉŽù,β,ç,ê,½Šù’èftjHf<f\_<sup>a</sup>•\Ži,<sup>3</sup>ê,Ü,·□B

[ff[f^f^fX,ìéš],É•\Ž!,³,é,½ftfHf<f\_ ,ðA'¼ÚCE»Ý,ìftfHf<f\_ ,ì 1 ,Âã,ìftfHf<f\_ ,É•ĩX, ,é,É,íA[1  
,Âã,ìftfHf<f\_ ,Ö (fAfCfRf“)] ,ðfNfŠfbfN,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<sup>-3</sup>CEø,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#,íA[^ê"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,İA[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,<sup>a</sup> [jfx^f€ fgfCE□[fX DLL] f{fbfNfX,É“ü—í,<sup>3</sup>,è,Ü,·□B

fgfCE[fX,ìÝ'è•íX,đŽó,~“ü,ê,ÄA[ODBC ff[f^ f[fX fAfhf~fjfXfgfCE[f^] f\_fCfAfO  
f{fbfNfX,đ•Ä,¶,é,É,íA[OK] ,đfNfŠfbfN,µ,Û,·B

fgfCE[fX,ìÝ'è•íX,đŽó,~“ü,ê,,ÉA[ODBC ff[f^ f[fX fAfhf~fjfXfgfCE[f^] f\_fCfAfO  
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,Àff[]f^ f[]fX,É[]Ú'±,μ,Û,·[]B,±,é,í[]A"~,ñfhf  
 %ofCfo,ðfCf"fxfg[]f<,μ,½ft[]fU[]['S^ð,æ<α—L,~,æ,ÑfAfNfZfX,·,éftf@fCf<'P^Ê,ìff[]f^ f[]fX,À,·[]B,±  
 ,é,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[][]ffj<,É,·,é•K—  
 v,à, ,è,Û,¹,ñ[]B

<b>fifvfVfjf"</b>	<b>[]à-¾</b>
[ftf@fCf< ff[]f^ f[]fX] f{fbfNfX	[ff[]f^f[]fX,ì[]é[]Š] f{fbfNfX,À•\ Ž!,³,é,éftfHf<f_,É,À,ç,Ä[]A,»,± ,ÉSi"[][,³,é,½ftf@fCf< DSN ,ÆfTfufHf<f_,ð,·,×,Ä•\ Ž!,μ,Û,·[]BDSN ,ðf_fuf<fNfŠfbfN,·,é,Æff[]f^ f[] fX,É[]Ú'±,μ,Û,·[]B
[ff[]f^f[]fX,ì[]é[]Š]	ffjCEf"fg ftfHf<f_,ð•\Ž!,μ,Û,·[]B,»,ì %°,ìfEfBf"fhfE,É,í[]A]ffjCEf"fg ftfHf<f_,ìfTfufHf<f_,Æftf@fCf< DSN ,ª•\Ž!,³,é,Û,·[]BfefLfxfg f{fbfNfX,ì %°E'α,É, ,é%°CEü,«- î^ó,ðfNfŠfbfN,·,é,Æ[]AffBfCEfNfgfŠ[] \'ç'S'ì,ª•\Ž!,³,é,Û,·[]B
[1 ,À[]ä,ìftfHf<f_,Ö (fAfCfRj")]	[ff[]f^f[]fX,ì[]é[]Š] ,É•\ Ž!,³,é,½ftfHf<f_,ðCE>[]ÿ,ìftfHf<f_,ì 1 ,À[]ä,ìftfHf<f_,É•ì[]X,μ,Û,·[]B
[DSN-¾]	ftf@fCf< ff[]f^ f[]fX fŠfXfg't,É'í'ð,³,é,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 %°Á,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,À,ç ,À•\Ž!,³,é,Û,·[]B[]V,μ,çftf@fCf< ff[]f^ f[]fX,ð'Ç%°Á,·,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,À,«,Û,·[]B
[OK]	[ff[]f^f[]fX,ì'í'ð] f_fCfAf[]fO f{fbfNfX,ð•Á,ñ[]AfŠfXfg't,ÄfnfCf %ofCfg•\Ž!,³,é,½ftf@fCf< ff[]f^ f[] fX ,Û,½,í [DSN -¾] f{fbfNfX,É"ü —í,μ,½ftf@fCf< ff[]f^ f[]fX,É[]Ú'± ,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",<sup>a</sup>  
 %oÿ,<sup>3</sup>, è, ½Žž" \_ , Å "K—p,<sup>3</sup>, 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<]  
 ,<sup>a</sup>í'ð,<sup>3</sup>, è, ½, Æ, µ, Ä, à □ Aftf@fCf<  
 ff □ [f^ f □ [fX  
 fŠfXfg, Ö, ì•ï □ X, ìžæ, è □ Á,<sup>3</sup>, 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,<sup>3</sup>, 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, ðŠÛ, 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,<sup>a</sup> \  
 Ž!,<sup>3</sup>, è, Û, · □ B □ V, µ, ç ftf@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,<sup>a</sup> 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!,<sup>3</sup>, è, ½ ftf@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",<sup>a</sup> %oÿ,<sup>3</sup>, è, ½Žž" \_ , Å "K—  
 p,<sup>3</sup>, è, Ä, ç, Û, · □ B

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

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

,±,ìfŠfXfg,í□A[ff□[f^f□[fX,ì□é□Š] f{fbfNfX,Â•\Ž!,<sup>3</sup>,è,éftfHf<f\_,É,Â,ç,Ä□A,»,±,ÉŠi”[,<sup>3</sup>,è,<sup>1</sup>/<sub>2</sub>ftf@fCf< DSN  
,ÆfTfufthf<f\_,ð,·,×,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  
,Âã,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!,<sup>3</sup>,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,ìfZfbfNfAfbfv] f\_fCfAf[]fO f{fbfNfX,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,<sup>a</sup>•\Ž,<sup>3</sup>,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,<sup>a</sup>“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  
fŠfXfg,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",)fZfbfg,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,đœ,-  
A,·,x,Ä,ì•ŹšfZfbfg,đŽw,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|f[f,.,éfhf%ofCfo,ì,Ý,đŽg—p,.,é,à,ì,ª, ,è  
,Ü,·B,½,Æ,ì,íAfhf%ofCfo,əff[f^ f[fX,Ö,ìfpfXf[fh,đft[fU[f,É—v<f,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,©,ÆA3 ,Á,ì SQL •¶-@  
(fÅ-fAfRfA AfSg’£) ,ì,ç,,è,©,É“Křf,μ,Ä,ç,Ü,·Bfhf  
%ofCfo,íA,» ,è,¼,è,ì•W fCfxf<,æ,è,àã,É, ,éCfxf<,ì<@“\,đ^è•”fTf|f[f,.,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<`E¾4Eê,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, â 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·fıfıVfıfı“**

fgf%of“fXfCE[f^,əff[f^,đ•İŠ·,·,é•û-@,đŽw'è,·,éıfıfıVfıfı“,ı,±  
,Æ,Å,·B,½,Æ,ı,ıA•İŠ·fıfıVfıfı“,ı)†,É,ıAfgf%of“fXfCE[f^,ə^Ù,È,é•ıŽšfZfbfg,İŠÔ,Å•ıŽš—  
ňff[f^,đ•İŠ·,·,é,Æ,«A'ıÙ,Æ,È,é•ıŽšfZfbfg,đŽw'è,·,é,à,ı,ª, ,è,Û,·B,Û,½A^Ă+%%»,â^Ă+%%»,ı  
%%đœı,½,ß,ÉŽg—p,·,éıL[.đŽw'è,·,é,à,ı,à, ,è,Û,·B

**fgf%of“fXfCE[]f^**

Access ,ì,æ,π,ÈfAfvfŠfP[]fVf#f“,Æff[]f^ f[]fX,ìŠÔ,Å^ø,«“n,<sup>3</sup>,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,<sup>2</sup>, ,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

