



VfXfef€ DSN ,É,Á,č,Äff[]f^ f[]fX,ì'Ç%ÁA[]íœ[]A[]- ,ðs,ç,Ü,·B,±,ê,ç,ìff[]f^ f[]fX,ðAf+[]fU[][,Á,Í,È,fRf"fsf...[]f^ ,É'í,μ,Äf[]fj<,É,μ,Ü,·BfVfXfef€[]A,Ü,½,ÍCE CEÀ,ðŽ,Äf+[]fU[][,íAf VfXfef€ DSN ,ìff[]f^ f[]fX,ðŽg—p,Á,«,Ü,·B

<b>f{fVfVfj}</b>	<b>à-¾</b>
[fVfXfef€ ff[]f^ f[]fX] f{fbfNfX	,cSN ,ì-¼'0,Æ,»,ê,É'í%ž,·,éfhf %ofCfo,ðŠÜ,p[]AfVfXfef€ DSN ,ì'ê— ,Á,·BfVfXfef€ DSN ,ðf_fuf<fNfŠfbfN,·,é,Æ[]Afhf%ofCfoCEÁ— L,ìff[]f^ f[]fX,ìfZfbfgfAfbfv f_fCfAf[]fO f{fbfNfX,ª·\Ž!,ª,ê,Ü,·B
[ 'Ç%Á	[]V,μ,fVfXfef€ ff[]f^ f[]fX,ð'Ç %Á,μ,Ü,·B,± ,ìf{f^f",ðfNfŠfbfN,·,é,Æ[]Af[]f^ f[]fX,ì[]V<K[]í[]-] f_fCfAf[]fO f{fbfNfX,ª·\ Ž!,ª,ê,Ü,·B,±,ìf_fCfAf[]fO f{fbfNfX,É,ìfhf %ofCfo,ª^ê—·\Ž!,ª,ê,Ü,·BfVfXfef€ ff[]f^ f[]fX,ð'Ç%Á,·,éfhf%ofCfo,ð'í'ð,μ,Ü,·B[Š@ —] ,ðfNfŠfbfN,·,é,Æ[]A,»,ìfhf%ofCfoCEÁ— L,ìff[]f^ f[]fX,ìfZfbfgfAfbfv f_fCfAf[]fO f{fbfNfX,ª·\Ž!,ª,ê,Ü,·B
[[]í[]œ]	Šù'¶,ìff[]f^ f[]fX,ð[]í[]œ,μ,Ü,·B[[]í[]œ] ,ðfNfŠfbfN,·,é'0,É[]A[]í[]œ,·,éVfXfef€ ff[]f^ f[]fX,ðfŠfXfg f{fbfNfX,Á'í'ð,μ,Ä,·,·K— v,ª, ,è,Ü,·B
[[]-]	fhf%ofCfoCEÁ—L,ìff[]f^ f[]fX,ìfZfbfgfAfbfv f_fCfAf[]fO f{fbfNfX,ª·\Ž!,μ,Ü,·B,± ,ìf_fCfAf[]fO f{fbfNfX,Á,í[]AŠù'¶,ìfVfXfef€ ff[]f^ f[]fX,ì[]- ,ð'í[]X,·,é,± ,Æª,Á,«,Ü,·B[[]-] ,ðfNfŠfbfN,·,é'0,É[]A'í[]Ü,Æ,È,éVfXfef€ ff[]f^ f[]fX,ðfŠfXfg f{fbfNfX,Á'í'ð,μ,Ä,·,·K— v,ª, ,è,Ü,·B
[OK]	[ODBC ff[]f^ f[]fX fAfhf~fjXfgfCE[]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,B,É [OK] ,ðfNfŠfbfN,·,é·K— v,í, ,è,Ü,¹,ñ[]BfŠfXfg f{fbfNfX,É'í,·,é'í[]X,í[]Af[]f^ f[]fX,ìfZfbfgfAfbfv f_fCfAf[]fO f{fbfNfX,Á [OK] ,ðfNfŠfbfN,μ,½Žž" _ ,Á"K—p,ª,ê,Ü,·B
[fLfff"fZf<]	[ODBC ff[]f^ f[]fX fAfhf~fjXfgfCE[]f^] f_fCfAf[]fO f{fbfNfX,ð·Á,¶,Ü,·B[fLfff"fZf<] ,ðfNfŠfbfN,μ,Á,à [fVfXfef€ ff[]f^ f[]fX] f{fbfNfX,Ö,ì'í[]X,Ížæ,è[]A,ª,ê,Ü,¹,ñ[]B
[fwf<fv]	fwf<fv%æ-É,ð·\Ž!,μ,Ü,·B

**[ftf@fcf< DSN] f^fu**



ftfHf<f\_Ö) Žl,³,é,éftfHf<f\_δACE»Ÿ'1'ð,μ,Ä,ç,éftfHf<f\_ì  
 (fAfCfRf“) 1 ,Äã,ìftfHf<f\_É•ïX,μ,Ü,·B  
 [OK] [ODBC ff[]f^ f[]fX fAfhf~fjXfgfCE[]f^]  
 f\_fCfAf[]fO f{fbfNfX,ð•Ä,¶,Ü,·Bftf@fCf<  
 ff[]f^ f[]fX f{fbfNfX,É'í,·,é•ïX,ð“K—  
 p,·,é,½,B,É [OK] ,ðfNfŠfbfN,·,é•K—  
 v,í, ,è,Ü,¹,ñBfŠfXfg  
 f{fbfNfX,É'í,·,é•ïX,íAfff[]f^ f  
 []fX,ìfZfbfgfAfbfv f\_fCfAf[]fO f{fbfNfX,Ä  
 [OK] ,ðfNfŠfbfN,μ,½ŽŽ“\_„Ä“K—p,³,è,Ü,·B  
 [fLfff“fZf<] [ODBC ff[]f^ f[]fX fAfhf~fjXfgfCE[]f^]  
 f\_fCfAf[]fO f{fbfNfX,ð•Ä,¶,Ü,·B[fLfff“fZf<]  
 ,ðfNfŠfbfN,μ,Ä,àAftf@fCf< ff[]f^ f[]fX  
 f{fbfNfX,Ö,ì•ïX,íŽæ,èÄ,³,è,Ü,¹,ñB  
 [fwf<fv] fwf<fv%œ-É,ð•Žl,μ,Ü,·B

**[fhf%ofCfo] f^fu**

fCf“fXfg[]f<,³,è,½ ODBC fhf%ofCfo,ÉŠÖ,·,éî•ñ,ð•Žl,μ,Ü,·B[±,ìfRf“fsf...[]f^,ÉfCf“fXfg[]f<,³,è,Ä,ç,é  
 ODBC fhf%ofCfo] f{fbfNfX,É,íAfrf“fsf...[]f^,ÉfCf“fXfg[]f<[]í,Ý,ìfhf%ofCfo,ª•Žl,³,è,Ü,·B

**fLfvfVfjf“**      **à-¾**

---

[±,ìfRf“fsf... fRf“fsf...[]f^,ÉfCf“fXfg[]f<,³,è,Ä,ç,éSe  
 []f^,ÉfCf“fXfg ODBC fhf%ofCfo,É,Ä,ç,ÄA-  
 []f<,³,è,Ä,ç,é ¼'O[]Afo[]fWfjf“[]A%ïŽĐ-¼[]Aftf@fCf<-  
 ODBC fhf ¼[]Aftf@fCf<[]X[]V“úŽž,ð•Žl,μ,Ü,·B  
 %ofCfo]  
 f{fbfNfX  
 [OK] [ODBC ff[]f^ f[]fX fAfhf~fjXfgfCE[]f^]  
 f\_fCfAf[]fO f{fbfNfX,ð•Ä,¶,Ü,·B  
 [fLfff“fZf<] [ODBC ff[]f^ f[]fX fAfhf~fjXfgfCE[]f^]  
 f\_fCfAf[]fO f{fbfNfX,ð•Ä,¶,Ü,·B  
 [fwf<fv] fwf<fv%œ-É,ð•Žl,μ,Ü,·B

fhf%ofCfo,ì'Ç%Ä,Æ[]íœ,ÉŽg—p,·,é [ 'Ç%Ä] f{f^f“ ,Æ [ []íœ] f{f^f“ ,íA,±,ìf\_fCfAf[]fO  
 f{fbfNfX,É,í, ,è,Ü,¹,ñBODBC fhf%ofCfo,ì'Ç%Ä,â[]íœ,íAfhf%ofCfo,ìfZfbfgfAfbfv fv[]fOf%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,Ñ[]o,μ,ðfgfCE[fX ('Ç[]Ö) ,.é•û-@,ðžw'è,μ,Ü,·[]BffXf^f€ fgfCE[fX DLL ,ðžg—p,μ,Ä[]ACEp'±“l,ÈfgfCE[fX[]A^è“x,ì,Ý,ìfgfCE[fX[]A“@“ìfgfCE[fX[]A,Ü,½,ìffXf^f€ fgfCE[fX,ðžw'è,Ä,«,Ü,·[]B

### fifvfVfjf“

□à-¾

[fgfCE[fX,ð[]i,·,® ŠjŽn,·,é]

“®“ìfgfCE[fX,ð—  
LCEø,É,μ,Ü,·[]B“®“ìfgfCE[fX,í[]A[ODBC  
ff[]f^ f[]fX fAfhf~fjXfgfCE[f^]  
f\_fCfAf[]fO f{fbfNfX,<sup>a</sup>•Ž!,<sup>3</sup>,è,Ä,ç  
,é[]Ä't,ÉŽÄ[]s,<sup>3</sup>,è,Ü,·[]B“®“ìfgfCE[fX,í[]A  
[]Ú'±,ì—L-<sup>3</sup>,É,©,©,í,ç,·—  
LCEø,É,Ä,«,Ü,·[]B[fgfCE[fX,ð[]i,·,®ŠjŽn,·,  
é] ,ðfNfŠfbfN,·,é,Æ[]Af{f^f“,<sup>a</sup>  
[fgfCE[fX,ì'âž~]  
f{f^f“,É•ì,í,è,Ü,·[]B[fgfCE[fX,ì'âž~]  
,ðfNfŠfbfN,·,é,Ü,Ä“®“ìfgfCE[fX,í—  
LCEø,Ä,·[]B

[Visual Studio Analyzer ,ìŠjŽn]

Visual Studio Analyzer ,ð—  
LCEø,É,μ,Ü,·[]B[Visual Studio Analyzer  
,ìŠjŽn] ,ðfNfŠfbfN,·,é,Æ[]Af{f^f“,<sup>a</sup>  
[Visual Studio Analyzer ,ì'âž~]  
f{f^f“,É•ì,í,è,Ü,·[]B,±  
,ìf{f^f“,ðfNfŠfbfN,·,é,Æ[]AVisual Studio  
Analyzer ,í-<sup>3</sup>CEø,É,É,è,Ü,·[]B[Visual  
Studio Analyzer ,ì'âž~]  
,ðfNfŠfbfN,·,é,Ü,Ä Visual Studio  
Analyzer ,í—LCEø,Ä,·[]B

[f[]fO ftf@fCf<,ìpfX]

fgfCE[fX[]î•ñ,ìŠi“[ftf@fCf<,ìpfX,Æftf@fC  
f<-¾,ð•\  
Ž!,μ,Ü,·[]BfVfXfef€[]î•ñ,©,çŠù'è,ìpfX,Æf  
tf@fCf<-¾ (SQL.LOG) ,<sup>a</sup>Š,,è—  
,Ä,ç,è,Ü,·,[]A•É,ìpfX,Æftf@fCf<-¾,ð“ü  
—í,·,é,©[]A[ŽQ[]Æ]  
,ðfNfŠfbfN,μ,ÄftfHf<f\_,Æftf@fCf<,ð'l'ð,μ[]  
A•É,ìftf@fCf<,ðžw'è,Ä,«,Ü,·[]B

[ŽQ[]Æ]

fRf“fsf...[]f^,ìftfHf<f\_,ðžQ[]Æ,μ,Ä[]Af[]fO  
ftf@fCf<,ìpfX,Æftf@fCf<-  
¾,ð'l'ð,·,é,Æ,«,Éžg—p,μ,Ü,·[]B

[ffXf^f€ fgfCE[fX DLL]

fgfCE[fX,ìŽÄ[]s,Éžg—p,·,éftf@fCf<,ð  
ODBCTRAC.DLL ftf@fCf<^ÈŠO,ìfgfCE[fX  
DLL ,©,ç'l'ð,·,é,Æ,«,Éžg—  
p,μ,Ü,·[]BMicrosoft Data Access SDK  
,É•t'®,·,é ODBCTRAC.DLL  
ftf@fCf<,ð[]A“C^Ó,ìffXf^f€ DLL  
,É'u,«Š·,ì,é,±,Æ,<sup>a</sup>Ä,«,Ü,·[]BffXf^f€ DLL  
,ìpfX,“,æ,Ñftf@fCf<-¾,ð“ü—  
í,·,é,©[]A[DLL ,ì'l'ð]  
,ðfNfŠfbfN,μ,ÄftfHf<f\_,ð'l'ð,μ,Ü,·[]B

[DLL ,ì'ò] fffBfCEfNfgfŠ\`č,đŽQ□Æ,μ,ÄffjXf^f€  
fgfCE□[fX DLL ,đ'ì'ò,·,é,Æ,«,ÉŽg—  
p,μ,Ü,·□BDLL  
,đ'ì'ò,·,é,Æ□A,»,ìfpfX,Æftf@fCf<-¼,ª  
[fjXf^f€ fgfCE□[fX DLL] f{fbfNfX,É•\  
Ž!,³,è,Ü,·□B

[OK] fgfCE□[fX,ì□Ý'è,ì•ï□X,đ“K—p,μ,Ä,©,ç  
[ODBC ff□[f^ f□[fX fAfhf~fjXfgfCE□[f^]  
f\_fCfAf□fO f{fbfNfX,đ•Â,¶,Ü,·□B

[fLfff“fZf<] fgfCE□[fX,ì□Ý'è,ì•ï□X,đ“K—p,¹,,É [ODBC  
ff□[f^ f□[fX fAfhf~fjXfgfCE□[f^]  
f\_fCfAf□fO f{fbfNfX,đ•Â,¶,Ü,·□B

[“K—p] [ODBC ff□[f^ f□[fX fAfhf~fjXfgfCE□[f^]  
f\_fCfAf□fO  
f{fbfNfX,đ•Â,¶,,É□AfgfCE□[fX,Ö,ì•ï□X“à  
—e,đ“K—p,μ,Ü,·□B•ï□X,ª^è□□s,í,è,Ä,č  
,È,~,è,î□A,±,ìf{f^f“,í'W□F•Ž!,³,è,Ü,·□B

[fwf<fv] fwf<fv%œ-Ê,đ•Ž!,μ,Ü,·□B

## ff[]fU[] ff[]f^ f[]fX] f{fbfNfX

,±,lfŠfXfg,í[]ADSN ,ì-¼'O,Æ,»,ê,É'í%ž,·,éfhf%ofCfo,È,Ç[]Aft[]fU[][ DSN ,đ,·,×,Ä·\  
Ž!,μ,Ü,·[]Bft[]fU[][ ff[]f^ f[]fX,É'í,μ,Äfhf%ofCfoĀ—L,ìff[]f^ f[]fX,ìfZfbfjgfAfbfv f\_fCfAfofO  
f{fbfNfX,đ·Ž!,·,é,É,í[]Aft[]fU[][ DSN ,đf\_fuf<fNfŠfbfN,μ,Ü,·[]B

【□□→】

fhf%oCfoCEÅ—L,ìff□[f^ f□[fX,ìfZfbfgfAfbfv f\_fCfAf□fO f{fbfNfX,ð•\Ž!,·,é,É,í□A[□□→]  
,ðfNfŠfbfN,μ,Û,·□B,±,ìf\_fCfAf□fO f{fbfNfX,Å,í□AŠù'¶,ìft□[fU□[ ff□[f^ f□[fX,ì□□→,ð•ì□X,·,é,±  
,Æ,ª,Å,«,Û,·□B'î□Û,Æ,È,éft□[fU□[ ff□[f^ f□[fX,ðfŠfXfg f{fbfNfX,Å'ìð,μ,Ä,"•K—v,ª, ,è,Û,·□B

## ['Ç%oÁ]

□V,μ,ff□[f^ f□[fX,δ'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,ê,Ü,·□B,±,ìf\_fCfAf□fO f{fbfNfX,É,ífhf%oCfo,ª^ê—•\Ž!,³,ê,Ü,·□Bft□[fU□[ ff□[f^ f□[fX  
—p,É'Ç%oÁ,·,éfhf%oCfo,đ'!đ,μ,Ü,·□B[Š@—¹] ,đfNfŠfbfN,·,é,Æ□A,»,ìfhf%oCfoCEÅ—L,ìff□[f^ f\  
□[fX,ìfZfbfgfAfbfv f\_fCfAf□fO f{fbfNfX,ª•\Ž!,³,ê,Ü,·□B

## 【íœ】

Šù'¶,ìff[f^ f[fX,đfŠfXfg f{fbfNfX,©,çíœ,·,é,É,íA[íœ] ,đfNfŠfbfN,μ,Ü,·Bíœ,·,éff[f^ f  
[fX,đfŠfXfg f{fbfNfX,Å'l'đ,μ,Ä,¨,•K—v,ª, ,è,Ü,·B

**[OK]**

[ODBC ff[f^ f[fX fAfhf~fjfXfgf[f^] f\_fCfAf[fO f{fbfNfX,ð•Å,¶,é,É,íA[OK]  
,ðNfŠfbfN,μ,Ü,·Bff[f^ f[fX fŠfXfg f{fbfNfX,É'í,·,é•ïX,ð“K—p,·,é,½,ß,É [OK] ,ðNfŠfbfN,·,é•K—  
v,í, ,è,Ü,¹,ñBfŠfXfg f{fbfNfX,É'í,·,é•ïX,íAff[f^ f[fX,lfZfbfgfAfbfv f\_fCfAf[fO f{fbfNfX,Å [OK]  
,ðNfŠfbfN,μ,½Žž“\_„Å“K—p,³,è,Ü,·B

## [fLfff“fZf<]

[ODBC ff□[f^ f□[fX fAfhf~fjfXfgf□□[f^] f\_fCfAf□fO f{fbfNfX,ð•À,¶,é,É,í□A[fLfff“fZf<]  
,ðfNfŠfbfN,μ,Û,·□B[fLfff“fZf<] ,ðfNfŠfbfN,μ,Ä,à□Afff□[f^ f□[fX fŠfXfg  
f{fbfNfX,Ö,ì•ï□X,íŽæ,è□Á,<sup>3</sup>,é,Û,<sup>1</sup>,ñ□B

**[fwf<fv]**

,±,lf^fu,ÉŠÖ,·,éfwf<fv,đ•\Ž|,·,é,É,Í□A[fwf<fv] ,đNfŠfbfN,μ,Û,·□B

## [fVfXfef€ ff[f^ f[fX] f{fbfNfX

,±,lfŠfXfg f{fbfNfX,íADSÑ ,ì-¼'O,Æ,»è,É'í%ž,·,éfhf%ofCfo,đŠÜ,pAfVfXfef€ DSN ,đ,·,×,Ä•\  
Ž!,μ,Ü,·BfVfXfef€ ff[f^ f[fX ,É'í,μ,Äfhf%ofCfoEÅ—L,íf[f^ f[fX,lfZfbfgfAfbfv f\_fCfAf□fo  
f{fbfNfX,đ•Ž!,·,é,É,íAfVfXfef€ DSN ,đf\_fuf·fNfŠfbfN,μ,Ü,·□B

## 【□□→】

fhf%ofCfoEĀ—L,ìff□[f^ f□[fX,ìfZfbfgfAfbfv f\_fCfAf□fO f{fbfNfX,đ•\Ž!,·,é,É,í□A[□□→]  
,đfNfŠfbfN,μ,Û,·□B,±,ìf\_fCfAf□fO f{fbfNfX,Ā,í□AŠù'¶,ìfVfXfef€ ff□[f^ f□[fX,ì□□→,đ•í□X,·,é,±  
,Æ,ª,Ā,«,Û,·□B'î□Û,Æ,È,éfVfXfef€ ff□[f^ f□[fX,đfŠfXfg f{fbfNfX,Ā'í'đ,μ,Ā,¨,•K—v,ª, ,è,Û,·□B

## ['Ç%oÁ]

V,μ,νfXfef€ ff[f^ f[fX,đ'Ç%oÁ,·,é,É,Í[A['Ç%oÁ] ,đfNfŠfbfN,μ,Ü,·B[ff[f^ f[fX,ìV<K[]-]  
f\_fCfAf[]fO f{fbfNfX,ª•\Ž!,³,ê,Ü,·B,±,ìf\_fCfAf[]fO f{fbfNfX,É,ífhf%oCfo,ª^ê—•\Ž!,³,ê,Ü,·BfVfXfef€  
ff[f^ f[fX,đ'Ç%oÁ,·,éfhf%oCfo,đ'ì'đ,μ,Ü,·B[Š@—¹] ,đfNfŠfbfN,·,é,Æ[A,»ìfhf%oCfoCEÅ—L,ìff[f^ f[  
[fX,ìfZfbfgfAfbfv f\_fCfAf[]fO f{fbfNfX,ª•\Ž!,³,ê,Ü,·B

## 【íœ】

Šù'¶,jVfXfef€ ff[f^ f[fX,đfŠfXfg f{fbfNfX,©,çíœ,.,é,É,íA[íœ]

,đNfŠfbfN,μ,Ü,·Bíœ,.,éVfXfef€ ff[f^ f[fX,đfŠfXfg f{fbfNfX,Å'í'đ,μ,Ä,¨,•K—v,<sup>a</sup>, ,è,Ü,·B

**ftf@fCf< ff[]f^ f[]fX f{fbfNfX**

,±,lfŠxfjg f{fbfNfX,íA[ff[]f^ f[]fX,ìê[]Š] f{fbfNfX,Å•\Ž!,³,ê,éftfHf<f\_ÉŠÜ,Ü,ê,éftf@fCf< DSN  
,ÆfTfuftfHf<f\_đ,·,×,Ä•\Ž!,μ,Ü,·[]Bftf@fCf< DSN ,đf\_fuf<fNfŠfbfN,·,é,Æ[]Afhf%oofCfoĀ—L,ìff[]f^ f[]  
[]fX,ìfZfbfgfAfbfv f\_fCfAf[]fO f{fbfNfX,²•\Ž!,³,é,Ü,·[]B

【□□→】

fhf%oCfoEĀ—L,ìff□[f^ f□[fX,ìfZfbfgfAfbfv f\_fCfAf□fO f{fbfNfX,đ•\Ž!,·,é,É,í□A[□□→]  
,đNfŠfbfN,μ,Û,·□B,±,ìf\_fCfAf□fO f{fbfNfX,Ā,í□AŠù'¶,ìftf@fCf< ff□[f^ f□[fX,ì□□→,đ•í□X,·,é,±  
,Æ,ª,Ā,«,Û,·□B'î□Û,Æ,È,éftf@fCf< ff□[f^ f□[fX,đfŠfXfg f{fbfNfX,Ā'í'đ,μ,Ā,¨,•K—v,ª, ,è,Û,·□B

## [ 'Ç%Á ]

V,µ,ftf@fCf< ff[f^ f[fX,ð'Ç%Á,µ,Ü,·B[ff[f^ f[fX,ìV<Kòì-] f\_fCfAfO f{fbfNfX,ª·\  
Ž,³,è,Ü,·B,±,ìf\_fCfAfO f{fbfNfX,É,ìfhf%ofCfo,ª^è—·\Ž,³,è,Ü,·B,±,ìf\_fCfAfO f{fbfNfX,É,ìfhf  
%ofCfo,ª^è—·\Ž,³,è,Ü,·B[V,µ,ftf@fCf< ff[f^ f[fX—p,É'Ç%Á,·,éfhf%ofCfo,ð'ì'ð,µ,Ä [Ú×Ý'è]  
,ðfNfŠfbfN,·,é,ÆAftf@fCf< DSN ,É'ì,·,éL[f[fh,ðŽw'è,Å,«,Ü,·B

## 【íœ】

Šù'¶,}ff[f^ f[fX,ðíœ,μ,Ü,·B[íœ] ,ðfNfŠfbfN,·,é'O,ÉAíœ,·,éftf@fCf< ff[f^ f[fX,ðfŠfXfg  
f{fbfNfX,Å'l'ð,μ,Ä,¨,•K—v,ª, ,è,Ü,·B



# [ff][f^ f][fX,ìèŠ]

fjfCef“fg ftfHf<f\_đ•\Žì,μ,Ü,·B,»ì%º,ìfEfBf“fhfE,É,íAjjfCef“fg ftfHf<f\_ìfTfuftfHf<f\_Æftf@fCf< DSN ,ª•\ Žì,³,è,Ü,·B%ŠúÝ’è,À,íAfvfXfef€î•ñ,ÉŽù,ß,ç,è,½Šù’èftfHf<f\_ª•\Žì,³,è,Ü,·B

**[1 ,Âã,ìftHf<f\_Ö] (fAfCfRf“)**

[ff[f^ f[fX,ìêŠ] ,É•Ž|,³,ê,éftHf<f\_ðACE»Ý‘I’ð,μ,Ä,ç,éftHf<f\_ì 1 ,Âã,ìftHf<f\_É•ïX,·,é,É,íA[1 ,Âã,ìftHf<f\_Ö] (fAfCfRf“) ,ðNfŠfbfN,μ,Ü,·B

## [ftfHf<f\_]

ftfHf<f\_, ì"à—e, ð•\Žì, ·, é, É, í□A[ftfHf<f\_] f{fbfNfX, ÉftfHf<f\_, ìfpfX, ð"ü—í, μ, Ü, ·□B□â'ìfpfX□AjjfCEf"fg  
ftfHf<f\_, ©, ç, ì'Š'ìfpfX, ì, ç, ·, ê, ©, ð"ü—í, Å, «, Ü, ·□B

**[ODBC fhf%ofCfo]/[Ú'±fv[f<,lf^fCf€fAfEfg]**

fRf“fsf...[f^,ÉfCf“fXfg[f<,³,è,Ä,ç,éŠe ODBC fhf%ofCfo,íAÚ'±fv[f<,lf^fCf€fAfEfg flfvfVf#f“,Æ<α,É^è  
—•\Ž!,³,è,Ü,·Bf^fCf€fAfEfg flfvfVf#f“,ðŸ'è,·,é,É,íA“C^Ó,ì ODBC fhf%ofCfo-  
¼,ðf\_fuf<fNfŠfbfN,μ,Ü,·B

[,±,ìfRf“fsf...[]f^,ÉfCf“fXfg[]f<,³,ê,Ä,ç,é ODBC fhf%ofCfo] f{fbfNfX

,±,ìfŠfXfg f{fbfNfX,í[]Afrf“fsf...[]f^,ÉfCf“fXfg[]f<,³,ê,Ä,ç,é ODBC fhf%ofCfo,ì-¼‘O[]Afo[]fWf#“[]A  
%oìŽĐ-¼[]Aftf@fCf<-¼[]A[]X[]V“ úŽž,đ•\Ž|,μ,Ü,·[]B

## [fgfCE[fX,đi,.,@ŠJŽn,.,é]

[ODBC ff[f^ f[fX fAfhf~fjXfgfCE[f^] f\_fCfAfO f{fbfNfX,ì)\\  
Ž!'+,ÉfgfCE[fX,đŽÀs,.,é,É,í[A[fgfCE[fX,đi,.,@ŠJŽn,.,é] ,đfNfŠfbfN,μ,Ü,·B" @ "lfgfCE[fX,íAÚ'±,ì—  
L-³,É,©,©,í,ç,·—LCEø,É,Å,«,Ü,·B[fgfCE[fX,đi,.,@ŠJŽn,.,é] ,đfNfŠfbfN,.,é,ÆAf{f^f",<sup>a</sup>  
[fgfCE[fX,ì'âŽ~] f{f^f",É•ï,í,è,Ü,·B[fgfCE[fX,ì'âŽ~] f{f^f",đfNfŠfbfN,.,é,©A[ODBC ff[f^ f[fX  
fAfhf~fjXfgfCE[f^] f\_fCfAfO f{fbfNfX,đ•Å,¶,é,ÆA" @ "lfgfCE[fX,í-³CEø,É,È,è,Ü,·B

## [Visual Studio Analyzer ,İŠŽn]

Visual Analyzer fCxf“fg” □s,ðĈep’±“l,ÉfgfĈ□[fX,·,é,É,Í□A[Visual Studio Analyzer ,İŠŽn]  
,ðfNfŠfbfN,μ,Ü,·□B[Visual Studio Analyzer ,İŠŽn] ,ðfNfŠfbfN,·,é,Æ□Af{f^f“,<sup>q</sup> [Visual Studio Analyzer  
,l’âŽ~] f{f^f“,É•İ,í,è,Ü,·□B[Visual Studio Analyzer ,l’âŽ~] ,ðfNfŠfbfN,·,é,Æ Visual Studio Analyzer ,l’  
³Ĉø,É,È,è,Ü,·□B

## [f]fo ftf@fCf<,lfpfX]

f[]fo ftf@fCf<,lfpfX,Æftf@fCf<-¼,ð•ï[]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,ª•Û'¶,³,ê,Ä,ç,éftf@fCf<,lfpfX,Æftf@fCf<-¼,ð•\  
Ž!,μ,Ü,·[]BfVfXfef€[]î•ñ,©,çŠù'è,lfpfX,Æftf@fCf<-¼ (SQL.LOG) ,ªŠ,,,è“-  
,Ä,ç,ê,Ü,·,ª[]A•Ê,lfpfX,Æftf@fCf<-¼,ð“ü—Í,·,é,©[]A[ŽQ[]Æ]  
,ðfNfŠfbfN,μ,ÄftfHf<f\_,Æftf@fCf<,ð'!ð,μ[]A•Ê,lfpf@fCf<,ðŽw'è,Å,«,Ü,·[]B

## [ŽQÆ]

fRf“fsf... [f^, ðŽQÆ, μ, ÄAfO ft@fCf<, ð' ð, ·, é, Æ, «, ÉŽg—p, μ, Ü, ·B

## [fj]Xf^f€ fgf€[fX DLL]

fgf€[fX, ÌŽÀs, ÉŽg—p, ., éftf@fCf<, ð ODBCTRAC.DLL ftf@fCf<^ÈŠO, Ìfgf€[fX DLL  
, ©, ç'ì'ð, ., é, É, ÍA[fj]Xf^f€ fgf€[fX DLL] f{fbfNfX, É, »), ÌpfX, ", æ, Ñftf@fCf<-¼, ð"ü—Í, μ, Û, .BMicrosoft  
Data Access SDK ,É•t' @, ., é ODBCTRAC.DLL ftf@fCf<, ðA"C^Ó, Ìfj]Xf^f€ DLL ,É'u, «Š, Ì, é, ±  
, Æ, ð, Å, «, Û, .Bfj]Xf^f€ DLL ,ÌpfX, ", æ, Ñftf@fCf<-¼, ð"ü—Í, ., é, ©A[DLL ,ì'ì'ð]  
, ðfNfŠfbfN, μ, ÅftfHf<f\_ð'ì'ð, μ, Û, .B

## [DLL ,ì'ð]

ffBfÇfNfgfŠ\ ç,ðŽQÆ,μ,ÄjXf^f€ fgfÇ[fX DLL ,ð'ì'ð,·,é,É,íA[DLL ,ì'ð] ,ðfNfŠfbfN,μ,Ü,·BDLL  
,ð'ì'ð,·,é,ÆA,» ,ìpfX,Æftf@fCf<-¼,<sup>a</sup> [f]Xf^f€ fgfÇ[fX DLL] f{fbfNfX,É•\Ž,³,ê,Ü,·B

**[OK]**

fgf☒[fX,ì☒Ý'è•ï☒X,đŽó,~“ü,ê,Ä☒A[ODBC ff☒[f^ f☒[fX fAfhf~fjXfgf☒[f^] f\_fCfAf☒fO  
f{fbfNfX,đ•Â,¶,é,É,í☒A[OK] ,đfNfŠfbfN,μ,Ü,·☒B

## [fLfff“fZf<]

fgf☒[fX,ì□Ý'è•ï□X,đŽó,~“ü,ê,,É□A[ODBC ff□[f^ f□[fX fAfhf~fjXfgf☒[f^] f\_fCfAf□fO  
f{fbfNfX,đ•Â,¶,é,É,í□A[fLfff“fZf<] ,đfNfŠfbfN,μ,Ü,·□B

## ["K-p]

[ODBC f^ f\ fX fAfhf~fjfXfgf^] f\_fCfAfO  
f{fbfNfX,ð•Â,¶,.,ÉAfgf^fX,ìÝ'è•ïX,ðŽó,~"ü,ê,éê¶,íA["K-p]  
,ðfNfŠfbfN,μ,Ü,·B•ïX,â^ê∅s,í,ê,Ä,ç,È,¯,ê,îA,±,ìf{f^f",í'W\F•Ž!,³,ê,Ü,·B

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

ftf@fCf< DSN ,ðž,Äff[]f^ f[]fX,Éü'±,μ,Ü,·□B“~ ,ñfhf%ofCfo,ðfCf“fXfg[]f<,μ,½,·,×,Ä,ìft[]fU[][,ª<κ—  
 L,Ä,«,éftf@fCf< f[]fX,ìff[]f^ f[]fX,Ä, ,è□Aft[]fU[][,É,æ,éff[]f^f[]fX,Ö,ìfAfNfZfX,ª%Ä^,Ä,·□B,±  
 ,é,ç,ìff[]f^ f[]fX,ð□Aft[]fU[][,É'í,μ,Äè—p,É,·,é•K—v,à□Afrf“fsf...[]f^,É'í,μ,Äff[]fj<,É,·,é•K—  
 v,à, ,è,Ü,¹,ñ□B

<b>flfvfVfjf“</b>	<b>□à-¾</b>
ftf@fCf< ff[]f^ f[]fX f{fbfNfX	[ff[]f^ f[]fX,ìè□Š] f{fbfNfX,É•\ Ž!,³,è,éftfHf<f_,ÉŠÜ,Ü,è,éftf@fCf< DSN ,ÆfTfufHf<f_,ð,·,×,Ä•Ž!,μ,Ü,·□BDSN ,ðf_fuf<fNfŠfbfN,·,é,Æff[]f^ f[]fX,Éü'± ,μ,Ü,·□B
[ff[]f^ f[] fX,ìè□Š]	fjfCEf“fg ftfHf<f_,ð•Ž!,μ,Ü,·□B,»,)ì %º,ìfEfBf“fhfE,É,í□AjjfCEf“fg ftfHf<f_,ìTfufHf<f_,Æftf@fCf< DSN ,ª•\ Ž!,³,è,Ü,·□BfefLfXfg f{fbfNfX,ì%E'ª,É, ,é %ºCEü,«— î'ó,ðfNfŠfbfN,·,é,Æ□A,»,)ffBfCEfNfgfŠ[]'ç'S' ì,ª•Ž!,³,è,Ü,·□B
[1 ,Ä□ä,ì ftfHf<f_,Ö] (fAfCfRf“)	[ff[]f^ f[]fX,ìè□Š] f{fbfNfX,É•\ Ž!,³,è,éftfHf<f_,ð□ACE»Ý'í'ð,μ,Ä,ç,éftfHf<f_,ì 1 ,Ä□ä,ìftfHf<f_,É•ì□X,μ,Ü,·□B
[DSN -¾]	ftf@fCf< ff[]f^ f[]fX f{fbfNfX,Ä'í'ð,³,è,Ä,ç ,éftf@fCf< DSN -¾,ð•\ Ž!,μ,Ü,·□B,Ü,½,í□A□V,μ,çftf@fCf< DSN - ¾,ð“ü—í,Ä,«,Ü,·□B
[□V<K□ì□~]	□V,μ,çftf@fCf< ff[]f^ f[]fX,ð'ç %ºÄ,μ,Ü,·□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,Ü,·□B,±,ìf_fCfAf□fO f{fbfNfX,É,ìfhf %ofCfo,ª'è—•Ž!,³,è,Ü,·□Bftf@fCf< DSN — p,É'ç%ºÄ,·,éfhf %ofCfo,ð'í'ð,μ,Ü,·□B[□ú□×□ý'è] ,ðfNfŠfbfN,·,é,Æ□Aftf@fCf< DSN ,É'í,·,éfl□f□□fh,ðžw'è,Ä,«,Ü,·□B
[OK]	[ODBC ff[]f^ f[]fX fAfhf~fjXfgfCE[]f^] f_fCfAf□fO f{fbfNfX,ð•Ä,ñ□Af{fbfNfX,ÄfnfCf %ofCfg•Ž!,³,è,Ä,ç,éftf@fCf< ff[]f^ f[] fX□A,Ü,½,í [DSN -¾] f{fbfNfX,É“ü— í,μ,½ftf@fCf< ff[]f^ f[]fX,Éü'±,μ,Ü,·□B ftf@fCf< ff[]f^ f[]fX f{fbfNfX,É'í,·,é•ì□X,ð“K—p,·,é,½,β,É [OK] ,ðfNfŠfbfN,·,é•K—v,í, ,è,Ü,¹,ñ□BfŠfXfg f{fbfNfX,É'í,·,é•ì□X,í□Aftf@fCf< f[] fX,ìfZfbfgfAfbfv f_fCfAf□fO f{fbfNfX,Ä [OK] ,ðfNfŠfbfN,μ,½žž“_Ä“K—p,³,è,Ü,·□B
[flfff“fzf<]	ftf@fCf< ff[]f^ f[]fX,Éü'±,¹,·,É [ODBC

ff[]f^ f[]fX fAfhf~fjXfgf[]f^] f\_fCfAf[]fO  
 f{fbfNfX,ð•Å,¶,Ü,·[]B[fLfff"fZf<]  
 ,ðNfŠfbfN,µ,Ä,à[]Aftf@fCf< ff[]f^ f[]fX  
 f{fbfNfX,Ö,ì•i[]X,Ížæ,è[]Á,³,è,Ü,¹,ñ[]B  
 [fwf<fv] fwf<fv%œ-Ê,ð•Ž!,µ,Ü,·[]B

**[fRf"fsf...[]f^ ff[]f^ f[]fX] f^fu**

ft[]fU[][ DSN ,Ü,½,½fVfXfef€ DSN ,ðž[],Åff[]f^ f[]fX,É[]Ú'±,µ,Ü,·[]BfRf"fsf...[]f^ ff[]f^ f[]fX,í,±  
 ,ìRf"fsf...[]f^,É€Ä-L,Ä, ,è[]A<α-L,³,è,Ü,¹,ñ[]Bft[]fU[][ ff[]f^ f[]fX,í,±,ìRf"fsf...[]f^,ìft[]fU[][,É€Ä  
 -L,Ä,·[]B,±,ìRf"fsf...[]f^,ì,·,×,Ä,ìft[]fU[][,Ü,½,½fVfXfef€ f[]fCfh,ìft[]fX,ì[]AfvfXfef€ ff[]f^ f[]fX,ðžg  
 -p,·,é,±,Æ,³,Ä,«,Ü,·[]B

**fifvfVfjf"      []à-¾**

fRf"fsf...[]f^      ft[]fU[][ DSN ,ÆfvfXfef€ DSN ,ìfŠfXfg (DSN  
 ff[]f^ f[]fX      ,ì-¾'O,Æf^fCfv,ðŠÜ,p) ,Ä,·[]BDSN  
 f{fbfNfX      ,ðf\_fuf:fNfŠfbfN,·,é,Æff[]f^ f[]fX,É[]Ú'±  
 ,µ,Ü,·[]B

[[]V<K[]i[]-]      []V,µ,çfRf"fsf...[]f^ ff[]f^ f[]fX,ð'Ç  
 %œÄ,µ,Ü,·[]B,±  
 ,ìf{f^f",ðfNfŠfbfN,·,é,Æ[]A[ff[]f^ f[]  
 []fX,ì[]V<K[]i[]-] f\_fCfAf[]fO f{fbfNfX,³•\  
 Ž!,³,è,Ü,·[]B,±,ìf\_fCfAf[]fO f{fbfNfX,É,ìfhf  
 %ofCfo,³è-—•\  
 Ž!,³,è,Ü,·[]Bft[]fU[][,Ü,½,½fVfXfef€ DSN —  
 p,É'Ç%œÄ,·,éfhf%ofCfo,ð'ð,µ,Ü,·[]B[ŽŽ,Ö]  
 ,ðNfŠfbfN,·,é,Æ[]ADSN  
 ,É'í,·,éfl[]f[]f[]fh,³K[]Ø,Ä, ,é,±  
 ,Æ,ðŠm"F,Ä,«,Ü,·[]B

[OK]      [ff[]f^ f[]fX,ì'í'ð) f\_fCfAf[]fO  
 f{fbfNfX,ð•Å,¶[]Af{fbfNfX,ÄfnfCf%ofCfg•\  
 Ž!,³,è,Ä,ç,éRf"fsf...[]f^ ff[]f^ f[]fX,É[]Ú'±  
 ,µ,Ü,·[]B  
 fRf"fsf...[]f^ ff[]f^ f[]fX  
 f{fbfNfX,É'í,·,é•i[]X,ð"K-p,·,é,½,β,É [OK]  
 ,ðNfŠfbfN,·,é•K-v,í, ,è,Ü,¹,ñ[]BfŠfXfg  
 f{fbfNfX,É'í,·,é•i[]X,ì[]Aft[]f^ f[]  
 []fX,ìfZfbfgfAfbfv f\_fCfAf[]fO f{fbfNfX,Ä  
 [OK] ,ðNfŠfbfN,µ,½žž"\_,Ä"K-p,³,è,Ü,·[]B

[fLfff"fZf<]      fRf"fsf...[]f^ ff[]f^ f[]fX,É[]Ú'±,¹,·,É  
 [ODBC ff[]f^ f[]fX fAfhf~fjXfgf[]f^]  
 f\_fCfAf[]fO  
 f{fbfNfX,ð•Å,¶,Ü,·[]B[]mfLfff"fZf<[]n  
 ,ðNfŠfbfN,µ,Ä,àRf"fsf...[]f^ ff[]f^ f[]fX  
 f{fbfNfX,Ö,ì•i[]X,Ížæ,è[]Á,³,è,Ü,¹,ñ[]B  
 [fwf<fv]      fwf<fv%œ-Ê,ð•Ž!,µ,Ü,·[]B

**ftf@fCf< ff[]f^ f[]fX f{fbfNfX**

[ff[f^ f[fX,îêš] f{fbfNfX,É•Ž!,³,ê,éftfHf<f\_ÉšÜ,Ü,ê,éftf@fCf< DSN ,ÆfTfufHf<f\_,ð,·,×,Ä•\  
Ž!,μ,Ü,·BDSN ,ðf\_fuf<fNfšfbfN,·,é,Æff[f^ f[fX,ÉÜ'±,μ,Ü,·B

## [ff][f^ f][fX,ìéŠ]

fjfCEf“fg ftfHf<f\_ ,đ•\Žì,μ,Ü,·B,» ,ì%º,ìfEfBf“fhfE,É,íAjjfCEf“fg ftfHf<f\_ ,ìfTfuftfHf<f\_ ,Æftf@fCf< DSN ,đ•\ Žì,³,é,Ü,·BfefLfXfg f{fbfNfX,ì%ºE‘æ,É, ,é%ºCEü,«-î^ó,đfNfŠfbfN,·,é,ÆA,» ,ìfffBfCEfNfgfŠ\‘ç‘S‘ì,đ•\ Žì,³,é,Ü,·B

# [1 ,Âã,ìftHf<f\_Ö] (fAfCfRf“)

[ff[f^ f[fX,ìéŠ] f{fbfNfX,É•Ž!³,é,éftHf<f\_ðACE»Ý!‘ð,μ,Ä,ç,éftHf<f\_ì 1  
,Âã,ìftHf<f\_É•ïX,μ,Ü,·B

**[DSN -¼]**

ftf@fCf< ff[]f^ f[][fX f{fbfNfX,Å'1'ð,³,ê,Ä,ç,éftf@fCf< DSN -¼,ð•\Ž!,μ,Ü,·□B,Ü,½,Í□A□V,μ,çftf@fCf<  
DSN -¼,ð“ü—Í,Å,«,Ü,·□B

**[Connect]**

f{fbfNfX,ÅfnfCf%oofCf g•\Ž|,³,ê,Ä,č,éftf@fCf< DSN ,Ü,½,í [DSN -¼] f{fbfNfX,É“ü—í,³,ê,½ftf@fCf< DSN ,É□Ú’±,μ,Ü,·□B

## [V<K]i]

V,μ,ϕftf@fCf< ff[f^ f[fX,δ'Ç%Á,μ,Ü,·B,±,lf{f^f“,ðfNfŠfbfN,·,é,ÆA[ff[f^ f[fX,i[V<K]i]  
f\_fCfAfO f{fbfNfX,ª•\Ž,³,ê,Ü,·B,±,lf\_fCfAfO f{fbfNfX,É,ífhf%oCfo,ª^ê—•\Ž,³,ê,Ü,·Bftf@fCf<  
DSN —p,É'Ç%Á,·,éfhf%oCfo,δ'l'ð,μ,Ü,·B[ŽŸ,Ö] ,ðfNfŠfbfN,·,é,ÆAftf@fCf< DSN  
,É'í,·,éL[f[fh,ðŽw'è,Á,«,Ü,·B

**[OK]**

[ODBC ff[]f^ f[]fX fAfhf~fjXfgf[]f^] f\_fCfAf[]fO f{fbfNfX,ð•Å,¶[]Af{fbfNfX,ÅfnfCf%°fCfG•\  
Ž|,³,ê,Ä,ç,éftf@fCf< ff[]f^ f[]fX[]A,Ü,½,Í [DSN -¼] f{fbfNfX,É“ü—Í,μ,½ftf@fCf< ff[]f^ f[]fX,É[]Ú'±  
,μ,Ü,·[]B

ftf@fCf< ff[]f^ f[]fX f{fbfNfX,É'í,·,é•İ[]X,ð“K—p,·,é,½,ß,É [OK] ,ðfNfŠfbfN,·,é•K—v,Í, ,è,Ü,¹,ñ[]BfŠfXfg  
f{fbfNfX,É'í,·,é•İ[]X,Í[]Aff[]f^ f[]fX,İfZfbfgfAfbfv f\_fCfAf[]fO f{fbfNfX,Å [OK] ,ðfNfŠfbfN,μ,½Žž“\_„Å“K  
—p,³,ê,Ü,·[]B

## [fLfff“fZf<]

ftf@fCf< f□[f^ f□[fX,É□Ú'±,¹,,É [ODBC ff□[f^ f□[fX fAfhf~fjfXfgf□□[f^] f\_fCfAf□fO  
f{fbfNfX,ð•Â,¶,Ü,·□B□mfLfff“fZf<□n ,ðfNfŠfbfN,μ,Ä,àfRf“fsf...□[f^ ff□[f^ f□[fX  
f{fbfNfX,Ö,ì•ï□X,ÍŽæ,è□Á,³,é,Ü,¹,ñ□B

## **fRf“fsf...[]f^ ff[]f^ f[]fX f{fbfNfX**

ft[]fU[][ DSN ,ÆfvfXfef€ DSN ,lfŠfXfg (DSN ,i-¼‘O,Æf^fCfv,ðŠÜ,þ) ,Å,·[]BDSN  
.ðf\_fuf·fNfŠfbfN,·,é,Æff[]f^ f[]fX,É[]Ú’±,µ,Ü,·[]B

## [V<K]i~]

V,μ,ϕfRf“fsf...[f^ ff[f^ f[fX,δ'Ç%Á,μ,Ü,·B,±,lf{f^f“,đfNfŠfbfN,·,é,Æ[A[ff[f^ f[fX,ìV<K]i~]  
f\_fCfAfO f{fbfNfX,ª•Ž,³,ê,Ü,·B,±,lf\_fCfAfO f{fbfNfX,É,ífhf%ofCfo,ª^ê—•\  
Ž,³,ê,Ü,·Bf+U[Ü,½,ífVfXfef€ DSN —p,É'Ç%Á,·,éfhf%ofCfo,đ'í'đ,μ,Ü,·B[ŽŸ,Ö]  
,đfNfŠfbfN,·,é,Æ[ADSN ,É'í,·,éL[f[fh,ª“K∅,Å ,é,±,Æ,đŠm”F,Å,«,Ü,·B

**[OK]**

[ff[]f^ f[]fX,ì'ð] f\_fCfAf[]fO f{fbfNfX,ð•Â,¶[]Af{fbfNfX,ÅfnfCf%ofCfg•\Ž!,³,ê,Ä,č,éfRf“fsf...[]f^ ff[]f^ f[]fX,É[]Ú'±,μ,Ü,·[]B

fRf“fsf...[]f^ ff[]f^ f[]fX f{fbfNfX,É'Î,·,é•İ[]X,ð“K—p,·,é,½,B,É [OK] ,ðfNfŠfbfN,·,é•K— v,Í, ,è,Ü,¹,ñ[]BfŠfXfg f{fbfNfX,É'Î,·,é•İ[]X,Í[]Aff[]f^ f[]fX,İfZfbfgfAfbfv f\_fCfAf[]fO f{fbfNfX,Å [OK] ,ðfNfŠfbfN,μ,½Žž“\_ ,Å“K—p,³,è,Ü,·[]B

## [fLfff“fZf<]

fRf“fsf...[]f^ ff[]f^ f[]fX,É[]Ú'±,¹,,É [ODBC ff[]f^ f[]fX fAfhf~fjfXfgfCE[]f^] f\_fCfAf[]fO  
f{fbfNfX,ð•Â,¶,Ü,·[]B[]mfLfff“fZf<[]n ,ðfNfŠfbfN,μ,Ä,àfRf“fsf...[]f^ ff[]f^ f[]fX  
f{fbfNfX,Ö,ì•ï[]X,ÍŽæ,è[]Á,³,è,Ü,¹,ň[]B

**[Ů'±fv[f<] f^fu**

Ů'±fv[f<,đŽg—p,μ,Ä,č,é,Æ,«,ÉA'í'đ,μ,½fhf  
 %ofCfo,ìŮ'±'ò,žžšô,“,æ,ŇŮ'±f^fCfAfEfg,ìžžšô,đ•ïX,Ä,«,Ü,·B,Ü,½AŮ'±  
 %oň“”,ì“CEv,đ~L^,·,épfH[f]}f“fX f,fjf^,đ—LCEø,Ü,½,Í-³CEø,ÉØ,è'Ö,ì,é,±,Æ,ª,Ä,«,Ü,·B

<b>fjfvfj“</b>	<b>à-¾</b>
[ODBC fhf %ofCfo] f{fbfNfX	fRf“fsf...[f^,ÉfCf“fXfg[f<,³,è,Ä,č,éŠe ODBC fhf%ofCfo,É,Ä,č,ÄA- ¼'O,“,æ,Ňfv[f< f^fCfAfEfg,đ•\ Ž!,μ,Ü,·B
[Ů'±fv[f<,]f^f CfAfEfg]	'í'đ,μ,½fhf%ofCfo,ìŮ'±fv[f< f^fCfAfEfg,đ•b'P^É,ÄŸ'è,μ,Ü,·BŮ'±fv [f<,ì'@«,đŸ'è,·,é,É,íAfhf%ofCfo- ¼,đf_fuf<fNfŠfbfN,μ,Ü,·B
[—LCEø,É,·,é]	fpftH[f]}f“fX f,fjf^,đ—LCEø,É,μ,Ü,·B
[-³CEø,É,·,é]	fpftH[f]}f“fX f,fjf^,đ-³CEø,É,μ,Ü,·B
[ÄŽŽs,Ü,Ä,ì' ò,žžšô]	ODBC fhf%ofCfo f}f[fWff,É,æ,èff[f^fx[fX fT[fö[,ìŽg— p,ªs%oÄ“\,Ä, ,é,± ,Æ,ªCEŸ'm,³,è,é,ÆA^è'è,ì'ò,žžšô,ìCEä,É Ů'± ,ªÄŽŽs,³,è,Ü,·B[ÄŽŽs,Ü,Ä,ì'ò,žžšô] ,Ä•b'P^É,ÄŸ'è,μA'ò,žžšô,đ'²B,Ä,«,Ü, B“ü—í,·,é'l,íA“Žš,Ä 6 CE...-č-ž,É,·,é•K —v,ª, ,è,Ü,·B
[fwf<fv]	fwf<fv,đ•Ž!,μ,Ü,·B

**[Ů'±fv[f<,]f^fCfAfEfg]**

'í'đ,μ,½fhf%ofCfo,]f^fCfAfEfgžžšô,đ•b'P^É,Äžw'è,μ,Ü,·B“ü—í,·,é'l,í“žš,É,·,é•K—v,ª, ,è,Ü,·B

**[—LCEø,É,·,é]**

□Ú'±,ìjpfH□[f}f“fX f,ffj^,ø—LCEø,É,μ,Û,·□B

**[-³Œø,É,·,é]**

□Ú'±,ìfpftfH□[f}f“fX f,ffj^,ð-³Œø,É,μ,Û,·□B

[ÄŽŹs,Ü,Ä,ì'ò,žžšô]

ÄÜ'±,Ü,Ä,ì'ò,žžšô,ð•b'P^Ê,Äžw'è,µ,Ü,·B

**[OK]**

[ODBC ff[f^ f\lfX fAfhf~fjfXfgfCE[f^] f\_fCfAfO f{fbfNfX,ð•Â,¶A'l'ð,µ,½Ú'±fv[f<,}f|fvfVf‡f“,ð—  
LCEø,É,µ,Ü,·B

## [fLfff“fZf<]

'l'ö,µ,½f|fvfVf†f“,ð—LÆø,É,¹,.,É [ODBC ff□[f^ f□[fX fAfhf~fjfXfgfÆ□[f^] f\_fCfAf□fO  
f{fbfNfX,ð•Â,¶,Ü,·□B

## [fo][fWfjf“[i•ñ] f^fu

ODBC fRf“f[fif“fg,É,Â,ç,Ä,Ì[i•ñ,ð•\Ž!,μ,Û,·B[i•ñ,a•\Ž!,³,ê,éfRf“f[fif“fg,É,Í[Afhf%ofCfo  
f}f[fWff[Af][f\< f%ofCfuf%ofŠ[AfCf“fXfg[f% DLL[A,“,æ,ÑfRfA fRf“f[fif“fg,ð\  
[¬,·,é,»,’¼,ìftf@fCf<,aŠÛ,Û,ê,Û,·B

### fifvfVfjf“

[à-¾

[ODBC fRfA Še ODBC fRfA fRf“f[fif“fg,ìà-  
fRf“f[fif“fg ¾[Afo[fWfjf“[Aftf@fCf<-  
fo[fWfjf“[i•ñ ¼[A,“,æ,Ñ[êŠ,ð•\Ž!,μ,Û,·B  
]

f{fbfNfX

[OK] [ODBC ff[f^ f\ [fX fAfhf~fjfXfgfC[f^]  
f\_fCfAf[fO f{fbfNfX,ð•\Ž!,μ,Û,·B

[fLfff“fZf<] [ODBC ff[f^ f\ [fX fAfhf~fjfXfgfC[f^]  
f\_fCfAf[fO f{fbfNfX,ð•\Ž!,μ,Û,·B

[wf<fv] fwf<fv,ð•\Ž!,μ,Û,·B

## —pCEêW

**2 ftjF[]fY fRf~fbfg** • aŽUfgf%of“fUfNfVf#f” ,đ 2 ftjF[]fY (‘Š) ,ÁfRf~fbfg , ,éfvf[]fZfX[]B[]Á[]%o ,ìftjF[]fY ,Á ,í[]Afjgf%of“fUfNfVf#f” fvf[]fZfbfT ,É ,æ ,è[]Afjgf%of“fUfNfVf#f” ,ì , ,x ,Á ,ì • “•a ,áfRf~fbfg%oÁ”\ ,Á , ,é ,± ,Æ ,aŠm”F , ,é ,Û , ,BŽŸ ,ìftjF[]fY ,Á ,í[]Afjgf%of“fUfNfVf#f” ,ì , ,x ,Á ,ì • “•a ,áfRf~fbfg , ,é ,Û , ,B[]Á[]%o ,ìftjF[]fY ,Á ,í[]Afjgf%of“fUfNfVf#f” ,ì ^ê • “ ,áfRf~fbfg • s%oÁ”\ ,Á , ,é ,Æ” » f , ,é ,é ,Æ []AZŸ ,ìftjF[]fY ,íŽA[]s , ,é ,Û , ,í ñ []BODBC , ,Á ,í 2 ftjF[]fY fRf~fbfg ,ìftjF[]fY , ,é ,Û , ,í ,ñ []B

## A

**ANSI** • Ä[]<KŠi< ;%oi (American National Standards Institute) ,ì—[]BODBC API , í ANSI CEÄ , Ñ []o , µfCEfxf< fCf“f^[]ftjFfCfX , É[]€< , µ , Ä , ç , Û , . []B

**APD** fAfjvŠfP[]fVf#f“ fpf%of[]f^<L[]qŽq (Application Parameter Descriptor) , ì—[]B

**API** fAfjvŠfP[]fVf#f“ fvf[]fOf%of~f“fO fCf“f^[]ftjFfCfX (Application Programming Interface) , ì— []B fAfjvŠfP[]fVf#f“ ,áf[]fCEfxf< fT[]fRfX , ì—v<[] ,ÆŽÄ[]s ,ÉŽg—p , ,é[]A^ê~A , Ìf<[]f“f” , Á , . []BODBC API , í ODBC ŠÖ[]” , Á []\ , ,é ,é ,Ä , ç , Û , . []B

**ARD** fAfjvŠfP[]fVf#f“ []s<L[]qŽq (Application Row Descriptor) , ì—[]B

## B

**BLOB** fofCfifŠ f%o[]fW flfufWfFfNfg (Binary Large Object) , ì—[]B255 fofCfif , È , Ç []A“Á”è , Ìf ofCfif [] , ,đ’ , ,ì , é ofCfifŠ ff[]f^ , Á , . []B“É”í[]A“áCE^ , Ìff[]f^ , ,đŽw , µ , Û , . []B , ± , Ì , æ , x , È , ff[]f^ , ,đff[]f^ f[]fX , È’—[]M , , ,é[]è[]# , á[]Aff[]f^ f[]fX , © , çŽæ“¾ , , ,é[]è[]#[]Aff[]f^ , í • aŠ , , ,é ,Û , . []B , ± , Ì , æ , x , È , ff[]f^ , í “ff“fO ff[]f^” ,Æ , à CEÄ , Ì , è , Û , . []B

## C

**C ff[]f^CE^** C fvf[]fOf%of€ ( , ± , Ì[]è[]#[]AfAfjvŠfP[]fVf#f” ) , ÉŠÛ , Û , è , é • Ì[] , Ìff[]f^CE^[]B

**CLI** []uAPI[]v , ,đŽQ[]Æ , µ , Ä , ,¾ , ,ç , ç []B

## D

**DBMS** ff[]f^fx[]fXŠÇ—[]fVXfef€ (Database Management System) , ì—[]B • “— []“l , È , ff[]f^fx[]fX ,Æf[]fU[]fŠÔ , È’¶[]Ÿ , , ,éftjgfEfffA , ÌfCEfCf , , ,Á , . []BDBMS , Á , í[]Aff[]f^fx[]fX , Ö , Ì , , ,x , Á , ÌfAfNfZfX , aŠÇ—[] , ,é ,Û , . []B

**DBMS fx[]fX , Ìfhf%ofCfo** fx^f“fhfAf[]f” , Ìff[]f^fx[]fX fGf“fwf” , ,đCe—R , µ , Ä • “— []“l , È , ff[]f^ , ÈfAfNfZfX , , ,éfhf%ofCfo[]B

**DDL** ff[]f^‘è<`CE¾CEè (Data Definition Language) , ì—[]BSQL “à , Áff[]f^ , ,đ’€[] , , ,é , Ì , Á , Ì , È , - []A’è< , , ,éXfe[]fYgf[]f”fg , Á , . []B—á , Ì , í[]ACREATE TABLE[]ACREATE INDEX[]AGRANT[]AREVOKE , È , Ç , Á , . []B

**DML** ff[]f^‘€[]iCE¾CEè (Data Manipulation Language) , ì—[]BSQL “à , Áff[]f^ , ,đ’è< , , ,é , Ì , Á , Ì , È , - []A’€[] , , ,đs , È , x , ½ , Ì , ÌfXfe[]fYgf[]f”fg , Á , . []B—á , Ì , í[]AINSERT[]AUPDATE[]ADELETE[]ASELECT , È , Ç , Á , . []B

## F

**Fat fj[]fj<** []ufuf[]fbfN fj[]fj<[]v , ,đŽQ[]Æ , µ , Ä , ,¾ , ,ç , ç []B

## I

**IPD** fCf“fvjŠf[]f“fe[]fVf#f” fpf%of[]f^<L[]qŽq (Implementation Parameter Descriptor) , ì—[]B

**IRD** fCf“fvjŠf[]f“fe[]fVf#f” []s<L[]qŽq (Implementation Row Descriptor) , ì—[]B

**ISO/IEC**     (International Standards Organization)/ (International Electrotechnical Commission) , ISO/IEC CEÄ, Ño, µfCExf< fCf^f^ftfFfCfX, É€', µ, Ä, ç, Ü, ·B

## N

**NULL 'I**    -¾Ž'! , ÉŠ, ,, è" - , Ä, ç, ê, ½'! , ä, È, ç, ±, ÆBNULL 'I, A0 , Ü, ½, Í<ó" , Æ, Í'Ü, È, è, Ü, ·B

## O

**ODBC**    fl[fvfv" ff[f^fx[fX fRfJfNfefBfrefeB (Open Database Connectivity) , Ì— ãBf<[f^ f" , Ì•W€fZfbfg, ð'è<` , , é API , ÌŽd—l, Ä, ·B, ±, Ìf<[f^ f" , Ì•W€fZfbfg, ðfAfvfŠfP[fVf#f" , Äžg— p, µ, ÄAfff[f^ f[fX, ÉŠÜ, Ü, è, éff[f^ , ÉfAfNfZfX, , , é, ±, Æ, ä, Å, «, Ü, ·B

**ODBC SDK**    ODBC Software Development Kit , Ì—ãBODBC fAfvfŠfP[fVf#f" , Æfhf%ofCfo, ÌŠj" , ðŽx %o‡, , é»•i, Ä, ·B

**ODBC fAfhf~fjXfgfCE[f^**    fCf"fxfg[f% DLL , ðCEÄ, Ño, µ, ÄAfff[f^ f[fX, ðÝ'è, , éŽÀ[s%Ä" \ fvffOf%of€B

## S

**SAG**    SQL Access Group , Ì—ãBSQL DBMS , ÉŠÖ[s, ðŽ, ÄŠé<Æ, ÌH<Æ<«"~'ì, Ä, ·BX/Open CEÄ, Ño, µfCExf< fCf" f^ftfFfCfX, ÌASQL Access Group , É, æ, éCE«†, ÉŠî, Ä, ç, Ä, ç, Ü, ·B

**SQL**    [v'ç%»»Æ%oiCE¾CEê (Structured Query Language) , Ì—ãBff[f^ , ÌfNfGfŠA[X[V[A, , , æ, ÑŠÇ —, ð[s, x, ½, ß, ÉAfvfŠfCE[fVf#fj< ff[f^fx[fX, Äžg—p, ¾, è, éCE¾CEê, Ä, ·B

**SQLSTATE**    "Á'è, ÌfGf%o[ , ðŽ!, ·A5 •¶Žš, Ì'!B

**SQL fxfe[fgf[f^fg**    fl[f[f[fh, Äžn, Ü, èAŽÄ[s, ¾, è, éfAfNfVf#f" , ðŠ@'S, É<L[q, , éASQL , ÌŠ@'S, ÉftfCE[fYB—á, Ì, ÌASELECT \* FROM Orders , È, Ç, Ä, ·BSQL fxfe[fgf[f^fg, Æfxfe[fgf[f^fg, Í'Ü, È, è, Ü, ·B

**SQL ff[f^CE^**    —ñ, Ü, ½, Ìfpf%of[f^ , Ìff[f^CE^Bff[f^ f[fX, É•Ü'¶, ¾, è, Ä, ç, éff[f^CE^ , Æ"— — l, Ä, ·B

**SQL "K[ffCExf<**    fhf%ofCfo, ÄfTf[f[f, ¾, è, é SQL92 •¶-@, ÌfCExf<BfCExf<, É, ÌAEntryAFIPS TransitionalAIntermediateA, Ü, ½, Í Full , æ, , è, Ü, ·B

## X

**X/Open**    •W€ , Æ, È, éðCE[ , ð" [s, , éŠé<ÆBSAG Šî€ , ð" [s, µ, Ü, ·B

**fAfvfŠfX fvfv" f**    SQL fxfe[fgf[f^fg, ðŽÄ[s, , é, ½, ß, Éff[f^fx[fX fgf"fwf" , Ä[s—, ¾, è, éfvfv"of"BC CE¾CEê, È, Ç, Ì'æ 3 [ç'äCE¾CEê, ÄfRf"fpfCf<, ¾, è, éŽÀ[s%Ä"vR[fh, Æ"—™" , Ìfvfv"of" , Ä, ·B

**fAfvfŠfP[fVf#f**    ODBC API , ÄŠÖ" , ðCEÄ, Ño, ·ŽÄ[s%Ä"fvfvffOf%of€B

**fAfvfŠfP[fVf#f" [s<L[qžq (ARD)**    — ñ, Ìf[f^ff[f^ , , æ, ÑfAfvfŠfP[fVf#f" , Ìfofbftf@ , ÉŠÜ, Ü, è, éff[f^ , ð\ , <L[qžqBfAfvfŠfP[fVf#f" , É, æ, Ä, Äžw'è, ¾, è, éff[f^ •İŠ , ÌCEä, Éff[f^ [s, ð•\, µ, Ü, ·B

**fAfvfŠfP[fVf#f" fpf%of[f^<L[qžq (APD)**    fAfvfŠfP[fVf#f" , É, æ, Ä, Äžw'è, ¾, è, é•İŠ , Ì'O, É SQL fxfe[fgf[f^fg, Äžg—p, ¾, è, é" @ "lfpf%of[f^ , ð•\ , <L[qžqB

**^É'užw'è[XVfxfe[fgf[f^fg**    CE»Ý, Ì[s, ÉŠÜ, Ü, è, é'l, ð[X[V, , é SQL fxfe[fgf[f^fgB

**^É'užw'è[íœfxfe[fgf[f^fg**    CE»Ý, Ì[s, ð[íœ , , é SQL fxfe[fgf[f^fgB

^É'užw'è'€ CE»Ÿ,ìs,Ås,í,ê,é,.,x,Ä,Ì'€ B—  
á,ì,ÎA^É'užw'èXV,,"æ,Ñ^É'užw'èíœfXfe[fgf"fgASQLGetDataASQLSetPos ,È,Ç,Å, B

fCf"fxfg[f% DLL ODBC frf"flflf"fg,ðfCf"fxfg[f<,μAff[f^ fl[fX,ðŸ'è,.,é DLL B

fCf" f^ [ftfFfCfX"K#fCfxf< fhf%ofCfo,ÅTf| [fg,³,è,é ODBC 3.7  
fCf" f^ [ftfFfCfX,ìfCfxf<BfCfxf<,É,ìfRfA AfCfxf< 1 A,Ü,½,ìfCfxf< 2 ,ª, ,è,Ü, B

fCf"fvfŠf[f"fe [fVfjf" s<Lqžq (IRD) fAfvfŠfP [fVfjf" ,É,æ,èŽw'è,³,è,é•İŠ, ,l'O,Éff [f^ s,ð\ ,<Lqžq B

fCf"fvfŠf[f"fe [fVfjf" fpf% [f^ <Lqžq (IPD) fAfvfŠfP [fVfjf" ,É,æ,èŽw'è,³,è,é•İŠ, ,ìCEä,É SQL fXfe [fgf"fg"à,ÅŽg—p,³,è,é"®"lfpf% [f^ ,ð\ ,<Lqžq B

^ø—p•, ,•t, <Ž•ÉŽq ^ø—  
pŽ•ÉŽq, Å,í,Ü,è,½Ž•ÉŽq B<æ∅,è<L+•t, <Ž•ÉŽq, Å,í A"ÁŽè•ŸŽš,ðŠÜ,β,½,è AfL [f [fh,ð^è'v,³,¹, é,±,Æ,ª,Å,«,Ü, (SQL92 , Å,í A<æ∅,è<L+•t, <Ž•ÉŽq,Æ,àCEÄ,Î,è,Ü,.) B

-,,,βž,ŸCE^ SQL COBOL AC ,È,Ç,ì•È,ìCE¾CEè, Å<Lq,³,è,½fvf [fOf%of€,É'¼Ú—,,,βž,Ü,è,Ä,ç,é SQL fXfe [fgf"fg" BODBC , Å,í A—,,,βž,ŸCE^ SQL ,ìŽg—p,μ,Ü,¹,ñ B u"Ä"l SQL v, ,æ,Ñ u"®"l SQL v, àŽQ AE,μ,Ä,¾,³,ç B

fGfXfP [fv<â SQL fXfe [fgf"fg,ì<â B

fIfNfefbfg 8 frfbfg,Ü,½,í 1 fofCf g B ufofCf g v,àŽQ AE,μ,Ä,¾,³,ç B

fIfNfefbfg' fIfNfefbfg, Å\,³,è,é Afofbftf@,Ü,½,í,»,è,ÉŠÜ,Ü,è,éff [f^ ,ì',³ B

fIfvfeBf~fXfefBfbfN"ŽžŽÀ s\$CEä "ŽžŽÀ s\$CEä,ðCEü ä,³,¹,é,½,β,ì•û-@ B,±,ì•û-@, Å,í A s,ìf [fbfN,³,è,Ü,¹,ñ,ª A s,ª X V,Ü,½,í [fœ,³,è,é'O,É Af [f f f<,É,æ,è A s,ì A "C,ŸŽæ,èŽž'È~ ,É s,ª•ì X,³,è,Ä,ç,é,©,Ç,ª,©,ªSm" F,³,è,Ü, B•ì X,³,è,Ä,ç ,é [è# ,ì A X V,Ü,½,í [fœ,ì ŽÀ s, Å,«,Ü,¹,ñ B ufyfVf~fXfefBfbfN"ŽžŽÀ s\$CEä v,ðŽQ AE,μ,Ä,-¾,³,ç B

, ©

f [f f< fAfvfŠfP [fVfjf" ,Éff [f^ s,ð•Ô, fVf f g E f f A,ì^è" B" f [f f<" ,ÆCEÄ,Î,è,é,ì AfRf" f sf... [f^' [—, Å\ž,³,è,é" \_ Af [f f<,ª%æ-É ä, Å,ìCE»Ÿ^É'u,ðž!,.,æ,ª,É ACE<%É f zfbfg,ìf [f f f<,ªCE<%É f zfbfg"à, Å,ìCE»Ÿ^É'u,ðž!,.,½,β,Å, B

ŠO" fL [ ,Ü,©,ìfe [fuf<,ìžâfL [ ,Æ^è'v,.,é Afef [fuf<"à,ì 1 ,Å,Ü,½,í•; [ ,ì—ñ B

ŠO" CE<# ^è'v,.,é s, ,æ,Ñ^è'v,μ,È,ç s,ì—¼•û,ª•Ô,³,è,é CE<# B^è'v,μ,È,ç s,ÉŠÜ,Ü,è,é^è'v,μ,È,ç ,.,x,Ä,ì—ñ,ì,ì NULL ,ÉŸ'è,³,è,Ü, B

CE^fCf"fwfP [f^ fAfvfŠfP [fVfjf"•ì" Afpf% [f^ A,Ü,½,í—ñ,ìff [f^ CE^ ,ðž!,.,½,β,É ODBC ŠÖ" ,É^ø,«"n, A,Ü,½,í ODBC ŠÖ" ,©,ç•Ô,³,è,é [f" BODBC , Å,í AC , ,æ,Ñ SQL ,ì—¼•û,ìCE^fCf"fwfP [f^ ,ª'è<,³,è,Ü, B

fj f^ f [fO ff [f^ f x [fX,ìCE^ Ž@,ð\ , Af [f^ f x [fX,ÉŠÜ,Ü,è,é^è~A,ìfVfXfef€ fe [fuf< B" fXfL [f}" ,Ü,½,í "ff [f^ Ž< [f" ,Æ,àCEÄ,Î,è,Ü, B

fj f^ f [fOŠÖ" ff [f^ f x [fX,ìfj f^ f [fO,©,çî•ñ,ðžæ"¾,.,é ODBC ŠÖ" B

ŠÄ« ff [f^ ,Ö,ìf AfNfz fX,ð s,xfOf [f of<,ÉfRf" fefL fXfg B ŠÄ« ,ÉŠÜ,Ü,è,Ä,ç,é,.,x,Ä,ì Ú'± ,ìfš fXfg,È,Ç AfOf [f of<,Éî•ñ,ªŠÄ« ,ÉŠÖ~A•t, ,ç,è,Ä,ç,Ü, B

ŠÄ« fnf"fhf< ŠÄ« ,ÉŠÖ,.,éî•ñ,ðŠÜ, pff [f^ ç,É'í,.,éfnf"fhf< B

fL [ s,ðž'•È,.,é'l,ðŠÜ, p 1 ,Å,Ü,½,í•; [ ,ì—ñ B u ŽâfL [ v, ,æ,Ñ u ŠO" fL [ v,àŽQ AE,μ,Ä,-¾,³,ç B

**fL[fZfbfg** p,s,lfTfFbf^,dZÀs,·,é·;□#f□[f^<,Ü,½,ÍfL[fZfbfgfhfŠfuf“ f□[f^<,ÁŽg—  
p,³,è,é^è~A,ÍfL□□B

**fL[fZfbfgfhfŠfuf“ f□[f^<** fL[fZfbfg,đŽg—  
p,μ,Ä□A□X□V,“,æ,Ñ□í□œ,³,è,½□s,đCEŸ□o,·,éfXfNf□□[f^%Ä“\f□[f^<□B

**<L□qŽq** —ñff□[f^,Ü,½,Í“@“lfpf%□□[f^,ì,Ç,ì,ç,©,ÉŠÖ,·,é□í·ñ,đŠÜ,þff□[f^□\‘□□B<L□qŽq,ì·” —  
□“í,É·\Ží,í‘è<“,³,è,Ü,¹,ñ□BfAfvfŠfP□[fVfj““,©,ç<L□qŽq,Ö,ì‘¼□Ú“í,ÉfAfNfZfX,í□AODBC  
ŠÖ□“,Æ<L□qŽqfñf“fhf<,đCEÄ,Ñ□o,μ,ÄftfB□[f^fh,đ‘€□í,·,é,±,Æ,É,æ,Ä,Ä,ì,Y%Ä“\,É,É,è,Ü,·□B

**Ší□”** □“íCen,ìŠí□□BfRf“fsf...□[f^,Á,í 2 (2 □í□”) ,â 10 (10 □í□”) ,ª½,Žg,í,è,Ü,·□B

**□s** “Á‘è,ìŽÀ‘ì,đ·\,·□A‘è~A,ìŠÖ~A,μ,½—ñ□B“fCEfR□[f^h” ,Æ,àCEÄ,í,è,Ü,·□B

**□s<L□qŽq** fAfvfŠfP□[fVfj““,É,æ,èŽw‘è,³,è,é·İŠ·,ì‘O (fCf“fvfŠfP□[fVfj““□s<L□qŽq,Ü,½,Í  
IRD)□A,Ü,½,í·İŠ·,ìCEä (fAfvfŠfP□[fVfj““□s<L□qŽq,Ü,½,Í ARD) ,ì,ç,·,é,©,É□ACE<%ÉfZfbfg,ì—ñ,đ·\  
,<L□qŽq□B

**□sfXfe□[f^fX”z—ñ SQLFetch□ASQLFetchScroll□A,Ü,½,Í SQLSetPos**  
,đCEÄ,Ñ□o,μ,½CEä,ì□s,ÍfXfe□[f^fX,đŠÜ,p”z—ñ□B

**□sfZfbfg** fuf□fbfN f□[f^<,É,æ,è□A‘P‘è,lfTfFbf^,Á·Ö,³,è,é^è~A,ì□s□B

**□sfZfbfg fofbftf@** CE<%ÉfZfbfg,ì—ñ,ÉCE<□#,μ,Ä,ç,éfofbftf@□B□sfZfbfg‘S‘ì,Íff□[f^,ª·Ö,³,è,Ü,·□B

**□s‘€□ì”z—ñ** “Á‘è,ì‘í,đŠÜ,p”z—ñ□B,±,ì‘í,í□AfvfŠfP□[fVfj““,É,æ,Ä,ÄŸ‘è,³,è□ASQLSetPos  
,đŽÀ□s,·,é□Ú,É□A‘í%ž,·,é□s,ª-³Ž<,³,è,é,±,Æ,đŽí,μ,Ü,·□B

**fNfGfŠ** SQL fXfe□[fgf□f“fg□BSELECT fXfe□[fgf□f“fg,ì^Ó-;ÁŽg—p,³,è,é□é□#,à, ,è,Ü,·□B

**<æ□Ø,è<L□t·t,«Ž~·ÉŽq** ^ø—  
pŽ~·ÉŽq,Á‘í,Ü,è,½Ž~·ÉŽq□B<æ□Ø,è<L□t·t,«Ž~·ÉŽq,Á,í□A‘ÁŽè·¶Žš,đŠÜ,ß,½,è□Afl□[f□□[fh,đ^è‘v,³,¹,  
é,±,Æ,ª,Ä,«,Ü,· (“ø—p·,·,·t,«Ž~·ÉŽq” ,Æ,àCEÄ,í,è,Ü,·)□B

**fNf%□CfAf“fg/fT□[fo□[** ff□[f^fX□[fX,ÍfAfNfZfX·ú-@,ì^èŽí□B1 ,Á,Ü,½,í·;□”,ÍfNf  
%□CfAf“fg,ªfT□[fo□[CEo—R,Áff□[f^,ÉfAfNfZfX,μ,Ü,·□B‘É□□Afvf  
%□CfAf“fg,Á,Íft□[fU□[ fCf“f^□[ftfFfCfX,đŽÀ‘·,μ□AfvT□[fo□[,Á,Íff□[f^fX□[fX,Ö,ÍfAfNfZfX,đ□sCEä,μ,Ü,·□B

**CE<%ÉfZfbfg SELECT** fXfe□[fgf□f“fg,đŽÀ□s,·,é,±,Æ,É,æ,è□í□- ,³,è,é^è~A,ì□s□B

**CE<□#** fŠfCE□[fVfjifj< ff□[f^fX□[fX“à,Á□s,ª‘€□□BfŠfCE□[fVfjifj< ff□[f^fX□[fX“à,Á□A‘è,è,ì—  
ñ,ÉŠÜ,Ü,è,é‘í,đ^è‘v,³,¹,é,±,Æ,É,æ,è□A·;□”,Ífe□[fuf<“à,ì□s,đCEŸ,ç,ÉfŠf“fN,³,¹,Ü,·□B

**CE»Ÿ,ì□s** f□[f^<,ÁCE»ŸÍfCf“fg,³,è,Ä,ç,é□s□B^É‘uŽw‘è‘€□í,íCE»Ÿ,ì□s,ÁŽÀ□s,³,è,Ü,·□B

**fRf~fbfg (,·,é)** fgf%□f“fUfNfVfj““,Á,ì·í□X,đ%□i<v“í,É·Ú·¶,·,é,±,Æ□B

,<sup>3</sup>

**fT□[fo□[ ff□[f^fX□[fX** fNf%□CfAf“fg/fT□[fo□[ŠÄ<<,ÁŽÀ□s,·,é,æ,ª,ÉfffUfCf“,³,è,½ DBMS□BSQL  
,·,æ,Ñfgf%□f“fUfNfVfj““,đ‘½□É,É<@“\,Áftf□[fg,·,éfXf^f“fhfAf□f“,Íff□[f^fX□[fX  
fgf“fWf“,ªŠÜ,Ü,è,Ü,·□B,±,ì DBMS,í□ADBMS fX□[fX,Ífhf%□Cf□,đŽg—p,μ,ÁfAfNfZfX,Á,«,Ü,·□B—  
á,ì,í□AOracle□Alformix□ADB/2□AMicrosoft SQL Server ,É,Ç,Á,·□B

**ftf“fLf“fo** 16 frfbfg fAfvfŠfP□[fVfj““,Á 32 frfbfg ODBC fhf%□Cfo,ªŽg—p,³,è,Ä,ç,é□é□#,ì□A16  
frfbfg fAfhfCEfX,©,ç 32 frfbfg fAfhfCEfX,Ö,ì·İŠ·□A,Ü,½,í,·,ì<t□B

**ŽÀ□s (,·,é)** SQL fXfe□[fgf□f“fg,đ□^—□,·,é,±,Æ□B

**ŽÀ□sŽžff□[f^ fpf%□f□□[f^** SQLExecute ,Ü,½,Í SQLExecDirect ,ªCEÄ,Ñ□o,³,è,½CEä,Éff□[f^,ª’ —  
□M,³,è,éfpf%□f□□[f^□Bff□[f^,ªfpf%□f□□[f^ fofbftf@,É‘u,©,è,é,ì,Á,í,É,□ASQL  
fXfe□[fgf□f“fg,ìŽÀ□sŽž,Éff□[f^,ª’ —□M,³,è,é,½,ß□A“ŽÀ□sŽžff□[f^ fpf%□f□□[f^”

,ÆCEÄ,Î,ê,Û,·□B'Ê□□A□f"FO f□□f^,Í•âŠ,,,³,ê,ÄŽÄ□sŽž,É'—□M,³,ê,Û,·□B

**ŽÄ□sŽžff□f^—ñ SQLSetPos**,æCEÄ,Ñ□o,³,ê,½CEä,Éff□f^,æ'—□M,³,ê,é—ñ□Bff□f^,æ□sfZfbfg  
fofbftf@,É'u,©,ê,é,Î,Ä,Í,Ë,□AŽÄ□sŽž,É'—□M,³,ê,é,½,β□A"ŽÄ□sŽžff□f^—ñ"  
,ÆCEÄ,Î,ê,Û,·□B'Ê□□A□f"FO f□□f^,Í•âŠ,,,³,ê,ÄŽÄ□sŽž,É'—□M,³,ê,Û,·□B

**Ž"®fRf~fbfg f,□lfh** fgf%of"fuFNfVf+f" fRf~fbfg f,□lfh,î^èží□Bfgf  
%of"fuFNfVf+f",æŽÄ□s,³,ê,½'¼CEä,É□A,»,lfgf%of"fuFNfVf+f",æfRf~fbfg,³,ê,Û,·□B

**□WCEvŠÖ□"** 'l,lfOf□□fv,©,ç'P^è,î'l,ð□□-,·,éŠÖ□"□B½,,î□é□□AGROUP BY,·,æ,Ñ HAVING <â,Æ•¹  
—p,³,ê,Û,·□B□WCEvŠÖ□",É,Í AVG□ACOUNT□AMAX□AMIN□A,·,æ,Ñ SUM ,æŠÛ,Û,ê,Û,·□B□WCEvŠÖ□",Í  
"fzfbfgšÖ□" ,Æ,æCEÄ,Î,ê,Û,·□B□ufXfjf%šÖ□"□v,àžQ□Æ,μ,Ä,,¾,³,ç□B

**□C□üžq** 1 ,Ä,Û,½,Í•□",lfe□□fuf<,æŠÛ,Û,ê,éff□f^fx□□fX□B

**ŽâfL□** fe□□fuf<,l□s,ð^è^Ó,Éž·Ê,·,é 1 ,Ä,Û,½,Í•□",l—ñ□B

**Žè"®fRf~fbfg f,□lfh** fgf%of"fuFNfVf+f" fRf~fbfg f,□lfh,î^èží□Bfgf%of"fuFNfVf+f",Í□ASQLTransact  
,ðCEÄ,Ñ□o,·,±,Æ,É,æ,è□A-¾Ž"l,ÉfRf~fbfg,³,ê,é•K—v,æ,è,Û,·□B

**□€"ö (·,é)** SQL fXfe□□fg□□f"fg,ðfRf"fpfCf<,·,é,±,Æ□BSQL fXfe□□fg□□f"fg,ð□€"ö,·,é,±  
,Æ,É,æ,è□A□f□f□fX fVf%of",ð□□-,μ,Û,·□B

**□ó'Ö** □Û,μ,□à-¾,³,ê,½□A□f□C□f□€",lfRf"fffBfVf+f"□B—á,î,Í□A□Ú'±,É,Í 7 ,Ä,î□ó'Ö (Š,,,è—  
,Ä,É,μ□AŠ,,,è—,Ä□í,Ý□A□Ú'±□í,Ý□A—vff□f^,È,Ç) ,æ,è,Û,·□B□f□A□f□C□f□€  
,æ"Á'è,î□ó'Ö,Ä,·,é□é□#,É,Í,ÝŽÄ□s,³,ê,é€□,à,è,Û,·□B—á,î,Í□A□Ú'±,î%ð□œ,Í□A□Ú'±,î□ó'Ö,æ"Š,,,è—  
,Ä□í,Ý" ,Ä,·,é□é□#,É,Í,Ý%Ä"\,Ä,è□A"□Ú'±□í,Ý" ,î□ó'Ö,È,Ç,Ä,ÍŽÄ□s,³,ê,Û,¹,ñ□B

**□ó'Ö,î•İŠ** fA□f□C□f□€,î□ó'Ö,î•İ%»□BODBC ,Ä,Í□AŠÄ«□A□Ú'±□A,·,æ,ÑfXfe□□fg□□f"fg,î□œμ-  
š,È□ó'Ö,î•İŠ,æ'è<,³,ê,Û,·□B

**□Š—LŽÒ** fe□□fuf<,l□š—LŽÒ□B

**□f'f** □A□CEä,ÉCEÄ,Ñ□o,³,ê,½□A'Á'è,lfnf"fhf<,ðžg—p,·,éŠÖ□",É,Ä,ç  
,Ä,î□f'f□î•ñ,ðŠÛ,þ□CEfR□□fh□B□f'f□CEfR□□fh,Í□AŠÄ«□A□Ú'±□A□f□f□f"fg□A,·,æ,Ñ<L□qžqfnf"fhf<,ÆŠ  
Ö~A•t,·,ç,ê,Ä,ç,Û,·□B

**fXfjf%šÖ□"**

'P^è,î'l,©,ç'P^è,î'l,ð□□-,·,éŠÖ□"□B—á,î,Í□A•¶žš—ñff□f^,î'â•¶žš/□-•¶žš,ð•İŠ,·,éŠÖ□",È,Ç,Ä,·□B

**fXfL□{f}** □ufjf^f□fO□v,ðžQ□Æ,μ,Ä,,¾,³,ç□B

**fXfNf□□{f<%Ä"vf□{f<** CE<%ÉfZfbfg,Ä'O•û,Û,½,íCEä•û,É^Ú"® ,Ä,«,éjf□□f<□B

**fXfe□□fg□□f"fg** SQL fXfe□□fg□□f"fg,ÉŠÖ,·,é,·,x,Ä,î□î•ñ,ð•Ú'¶,·,éRf"fe□□BfXfe□□fg□□f"fg,Æ SQL  
fXfe□□fg□□f"fg,Í^Û,È,è,Û,·□B

**fXfe□□fg□□f"fg fnf"fhf<** fXfe□□fg□□f"fg,ÉŠÖ,·,é□î•ñ,ðŠÛ,þff□f^□\ç,É'í,·,éfnf"fhf<□B

**fXfgfAfh fV□fV□□fWff** □ufv□fV□□fWff□v,ðžQ□Æ,μ,Ä,,¾,³,ç□B

**□®□#<<%»<@"** f□□f^f□□fX,î□®□#<<,ð^Üž□,·,é,½,β,ÉfffUfCf",³,ê,½□ASQL ,lfTfufZfbfg□B

**□Ä"l SQL** -,β□ž,ÝCE^ SQL ,î^èží□BSQL fXfe□□fg□□f"fg,æfn□□fhfR□□fh%»»,³,ê,Ä,·,è□A□f□□f□f%of€  
,î,Û,©,î•"•æ,æRf"fpfCf<,³,ê,é,Æ,«,É SQL fXfe□□fg□□f"fg,àRf"fpfCf<,³,ê,Û,·□B□u"®"l  
SQL□v,àžQ□Æ,μ,Ä,,¾,³,ç□B

**□Ä"lfj□□f<** CE<%ÉfZfbfg"à,î□X□V□A□□œ□A,Û,½,í' }"ü,ðœÝ□o,Ä,«,É,çfXfNf□□{f<%Ä"vf□□f<  
f<□B'Ê□□ACE<%ÉfZfbfg,lfRfs□□,ð□□-,·,é,±,Æ,É,æ,èŽÁ'•,³,ê,Û,·□B

**□Ú'±** fhf%ofCfo,Æff□f^ f□□fX,î"Á'è,lfCf"Xf^f"fx□B



“~ŽžŽÄs□SCEä •□”,lfgf%of“fUfNfVf#”,a“~Žž,É“^è,lf□[f^,ÉfAfNfZfX,·,é<@“\□B

“@“I SQL -,,,ß□ž,ÝCE^ SQL ,ì^èž□B“@“I SQL ,Á,í□AZÄ□sŽž,É SQL fXfe□[fgf□“fg,²□□□,³,è,ÄfRf“fpfCf<,³,è,Ü,·□B□□□Ä“I SQL□v,àŽQ□AE,μ,Ä,,¾,³,¢□B

“@“lf□[f< CE<%oÉfZfbfg“à,ì□X□V□A□□□□□A,Ü,½,í““ü,³,è,½□s,ðCEÿ□o,·,é,± ,AE,²,Ä,«,éfxfnf□□[f<%oÄ“\f□[f<□B

fhf%ofCfo ODBC API ,ìšÖ□”,ðCEöšJ,·,é<□[f“ f” f%ofCfuf%ofš□Bfhf%ofCfo,í 1 ,Á,ì DBMS ,Éí,μ,Ä“Ä’è,³,è,Ä,¢,Ü,·□B

fhf%ofCfo fzfbfgfAfbfv DLL fhf%ofCfo“Á—L,lfCf“fXfg□[f<□í•ñ,“,æ,Ñ□Ý’è<@“\,ðšÜ,p DLL□B

fhf%ofCfo f}f□[fWff fAfVfšfP□[fVf#”,Ážg—p,·,éfhf%ofCfo,Ö,lfAfNfZfX,ðšC—□,·,é<□[f“ f” f%ofCfuf %ofš□Bfhf%ofCfo f}f□[fWff,í□Afhf%ofCfo,lf□□[fh/fAf“f□□[fh,ð□s,¢□A“K□Ø,Éfhf%ofCfo,É ODBC šÖ□”,ìCEÄ,Ñ□o,μ,ð^ø,«“n,μ,Ü,·□B,Ä,Ü,è□Afhf%ofCfo f}f□[fWff,í□AODBC šÖ□”,ìCEÄ,Ñ□o,μ,ð^ø,«“n,μ,Ä,¢,éšÖ,É□Afhf%ofCfo,Ö,ì□Ú’± (□Ú’±%oð□□) ,ð□s,¢,Ü,·□B

fgf%of“fUfNfVf#” □□<AE,lfAfgf~fbfN’P^Ê□Bfgf%of“fUfNfVf#”,ì□□<AE,Á,í□A□<AE’S’ì,ðš@—¹,·,é•K— v,²,·,è,Ü,·□Bfgf%of“fUfNfVf#”,ì^è•”,²ž,“s,·,é,AE□Afgf%of“fUfNfVf#”S’ì,²ž,“s,μ,Ü,·□B

fgf%of“fUfNfVf#”•a—£ fgf%of“fUfNfVf#”,ð□A,Ü,©,ì,·,x,Ä,lfgf%of“fUfNfVf#”,ì%oe<¿,©,¢•a—£ ,·,éfxfnfVf#”□B

fgf%of“fUfNfVf#”•a—£fCEfx< fgf%of“fUfNfVf#”,²•a—£,³,è,é“x□#,¢□Bfgf%of“fUfNfVf#”•a— £fCEfx<,É,í□ARead Uncommitted□ARead Committed□ARepeatable Read□ASerializable□A,“,æ,Ñ Versioning ,ì 5 Ží—p,²,·,è,Ü,·□B

fgf%of“fXfCE□[f^ DLL ff□[f^,ì•žšfZfbfg,ð•š,·,é DLL□B

fgf%of“fXfCE□[f^ fzfbfgfAfbfv DLL fgf%of“fXfCE□[f^“Á—L,lfCf“fXfg□[f<□í•ñ,“,æ,Ñ□Ý’è<@“\ ,ðšÜ,p DLL□B

# Í

fofCf 8 frfbfg,Ü,½,í 1 flfNfefbfg□B□uflfNfefbfg□v,àŽQ□AE,μ,Ä,,¾,³,¢□B

fofCf“fffBf“fo “@ŽCE,ì□ê□#,í□ACE<%oÉfZfbfg,ì—ñ,Ü,½,í SQL fXfe□[fgf□“fg,lfpf %of□□[f^ ,ðfAfVfšfP□[fVf#“•í□”,ÉšÖ~A•t,·,é“@□ì,ðžw,μ,Ü,·□B~¼ŽCE,ì□ê□#,í□A,»,ìšÖ~A,ðžw,μ,Ü,·□B

fofCf“fffBf“fo flftfZfbg ,·,x,Ä,ìCE<□#,³,è,½—ñ□A,Ü,½,lfpf%of□□[f^ ff□[f^,Éí,·,éff□[f^ fofbftf@ fAfhfCEfX,“,æ,Ñ’,¾fCf“fWfP□[f^ fofbftf@ fAfhfCEfX,É%oÄ,ì,¢,è,é’□B□V,μ,¢fAfhfCEfX,²□□□,³,è,Ü,·□B

fofbftf@ fAfVfšfP□[fVf#”,AEfhf%ofCfošÖ,Äff□[f^,ì^ø,«“n,μ,Éžg—p,·,éfxfnfVf#” f□f,š,ì^è•“□B’É□□Afofbftf@,íí,É,É,Ä,Ä,¢,Ü,· (“ff□[f^ fofbftf@” ,AE “ff□[f^·fofbftf@” ,É,¢)□B

fpf%of□□[f^ SQL fXfe□[fgf□“fg,ì•í□”□Bfpf%of□□[f^,É,í□Afpf%of□□[f^ f}□[f□[.Ü,½,í<^—â•,, (?) ,²•t,¢,Ä,¢,Ü,·□Bfpf %of□□[f^ ,í□AfxfnfVfšfP□[fVf#“•í□”□A,“,æ,Ñfxfe□[fgf□“fgŽÄ□sŽž,Éžæ“¾,³,è,é,»,ì’l,ÉCE<□#,³,è,Ä,¢,Ü,·□B

fpf%of□□[f^<L□qžq SQL fXfe□[fgf□“fg,Ážg—p,³,è,éžÄ□sžžfpf%of□□[f^,ð•v,·<L□qžq□Bfpf %of□□[f^ ,í□AfxfnfVfšfP□[fVf#”,É,æ,éžw’è,³,è,é•š,ì’O (fxfnfVfšfP□[fVf#” fpf%of□□[f^<L□qžq,Ü,½,í APD)□A,Ü,½,í•š,ìCEä (fCf“fvfšf□“fe□[fVf#” fpf%of□□[f^<L□qžq,Ü,½,í IPD) ,ì,¢,·,é,©,É•v,³,è,Ü,·□B

fpf%of□□[f^ fXfe□[f^fX”z—ñ SQLExecDirect ,Ü,½,í SQLExecute ,ðCEÄ,Ñ□o,μ,½CEä,lfpf %of□□[f^ ,lfXfe□[f^fX,ðšÜ,p”z—ñ□B

fpf%of□□[f^“€□”z—ñ “Ä’è,ì’l,ðšÜ,p”z—ñ□B,± ,ì’l,í□AfxfnfVfšfP□[fVf#”,É,æ,Ä,Ä□Ý’è,³,è□ASQLExecDirect ,Ü,½,í SQLExecute ,ðžÄ□s,·,é□Ú,É□Aí %ož,·,éfpf%of□□[f^ ,²~ž<,³,è,é,±,AE,ðžì,μ,Ü,·□B

**fnf"fhf<** ftf@fCf<,Ü,½,Íff□lf^□\ç,È,Ç,ð^è^Ó,ÉŽ^•É,·,é'□Bfnf"fhf<,í□Afnf"fhf<,ð□□→,μ,ÄŽg—p,·,éfl  
ftfgfEfffA,É'í,μ,Ä,ì,Ý—L—p,Ä,·,ª□A,Ü,©,ìf\ftfgfEfffA,É,æ,è^ø,«"n,ª,è,Ä□AFAfCfef€,ðŽ^•É,·,é□è□#,à, ,è,Ü  
,·□BODBC ,Ä,í□AŠÀ<«□AÚ'±□Afxfe□lfgf□f"fg□A,·,æ,Ñ<L□qŽq,ìfnf"fhf<,ª'è<,ª,è,Ü,·□B

**frf...□** 1 ,Ä,Ü,½,í,·□",ìfe□lfuf<,ÉŠÜ,Ü,è,éff□lf^,ð•\Ž!,·,é•û-@□B'É□□Afrf...□,í□A1  
,Ä,Ü,½,í,·□",ìfe□lfuf<,É'¶□Ý,·,é—ñ,ìfTfufZfbfg,Æ,μ,Ä□□→,ª,è,Ü,·□BODBC ,Ä,í□A^è"É"í,Éfrf...  
□,Æfe□lfuf<,í"~"™,Ä,·□B

**ftf@fCf< fff□lf^ f□lfX** □Ú'±□î•ñ,ª .DSN ftf@fCf<,É•Ú'¶,ª,è,éff□lf^ f□lfX□B

**ftf@fCf< fx□lfX,ìfhf%ofCfo** •"□"í,Éff□lf^,É'¼□ÚfAfNfZfX,·,éfhf%ofCfo□B,±,ì□è□#□Afhf  
%ofCfo,É,ìff□lf^fx□lfX fgf"fwf",ªŠÜ,Ü,è,Ä,·,è□Afhf%ofCfo,Æff□lf^ f□lfX,ì—¼•û,ì-ðŠ,,ð  
%oÉ,½,μ,Ü,·□B

**ftfB□lf<fh** □u—ñ□v,ðŽQ□Æ,μ,Ä,,ª/4,ª,ç□B

**ftfFbf` (,·,é)** Ç<%oÉfZfbfg,©,ç 1 ,Ä,Ü,½,í,·□",ì□s,ðŽæ"ª/4,·,é,±,Æ□B

**fvf□fv□lfWff** fff□lf^fx□lfX,ì-¼'0•t,«flfufWfFfNfg,Æ,μ,Ä•Ú'¶,ª,è,é□A1  
,Ä,Ü,½,í,·□",ìfvfŠfrf"fpfCf<□í,Ý SQL fxfe□lfgf□f"fg,ìfOf<□lfv□B

**fvf□fv□lfWff—ñ**  
fvf□fv□lfWffÇÄ,Ñ□o,μ,ì^ø□"□Afvf□fv□lfWff,Ä•Ô,ª,è,é'í□A,Ü,½,ìfvf□fv□lfWff,Ä□□→,ª,è,éÇ<%oÉfZfbfg,ì  
—ñ□B

**fuf□fbfN fj□lf<** ^è"x,É•,·□",ìff□lf^□s,ðftfFbf` ,Ä,«,éff□lf<□B

**fyfvf~fxfefBfbfN"~ŽŽÀ□s□ÇEä** '¼—ñ%o»%oÄ"\□«,ðŽÀ'•,·,é•û-@□B,±,ì•û-  
@,Ä,í□A□s,ªff□fbfN,ª,è,Ä□A,Ü,©,ìfgf%of"fuFfVfj" ,Ä,±,è,ç,ì□s,ð•í□X,Ä,«,-  
,É,è,Ü,·□BufìfvfefBf~fxfefBfbfN"~ŽŽÀ□s□ÇEäv,àŽQ□Æ,μ,Ä,,ª/4,ª,ç□B

## ,Ü

**fjfvf" fff□lf^ f□lfX** fCefWfXfgfŠ,È,Ç□AfvfXfef€,É•Ú'¶,ª,è,é□Ú'±□î•ñ,ìff□lf^ f□lfX□B

**ff^ff□lf^** SQL fxfe□lfgf□f"fg,ìfpf%of□lf^,Ü,½,ìÇ<%oÉfZfbfg,ì—ñ,ð•\,·ff□lf^□B—  
á,ì,í□Aff□lf^Ç^□Aff□lf^'·□Afpf%of□lf^,ì□, "x,È,Ç,Ä,·□B

**-B,è'í** ODBC ŠÖ□",Ä•Ô,ª,è,é'í□B

## ,Ç

**fŠfef%of<** SQL fxfe□lfgf□f"fg,ÉŠÜ,Ü,è,éŽÀ□Ú,ìff□lf^'í,ð•\,·¶Žš□B

**fÇfR□lfh** □u□s□v,ðŽQ□Æ,μ,Ä,,ª/4,ª,ç□B  
—ñ □s,ÉŠÜ,Ü,è,é□î•ñ,ì'P^èfAfCfef€,ð•Ú'¶,·,éfrf"fefi□B"ftfB□lf<fh" ,Æ,àÇEÄ,ì,è,Ü,·□B

**f□lf<fofbfN (,·,é)** fgf%of"fuFfVfj" ,Ä•í□X,ª,è,½'í,ðÇE³,ì□ó'Ô,É-B,·,±,Æ□B

**f□fbfN** fjf<f ft□lfU□[ŠÀ<<,Ä□A□s,Ö,ìfAfNfZfX,ð□ÇEÄ,·,é,½,β,É DBMS ,ªŽg—  
p,·,éfvf□fZfX□B'É□□ADBMS ,Ä,ì□s,©□A□s,Ü,½,ìfy□lfW,ªf□fbfN,ª,è,Ä,ç,é,±,Æ,ðŽ!,·□s,ªŠÜ,Ü,è,Ä,ç,é•"  
—□"í,Éfy□lfW,Éfrfbbfg,ð□Ý'è,μ,Ü,·□B

**ff"fo fff□lf^** 255 fofCfg,Ü,½,í•¶Žš,È,Ç□A'Á'è,ì'•,ª,ð'í,·,éfofCfifŠ,Ü,½,í•¶Žš—  
ñff□lf^□B'É□□A'áÇ^,ìff□lf^,ðŽw,μ,Ü,·□B,±,ì,æ,κ,Éff□lf^,í□Aff□lf^ f□lfX,É'—□M,·,é□è□#,á□Aff□lf^ f  
□lfX,©,çŽæ"ª/4,·,é□è□#,É•ªŠ,,ª,è,Ä'—□M,ª,è,Ü,·□B,±,ì,æ,κ,Éff□lf^,í□A"BLOB" ,Ü,½,í "CLOB"  
,Æ,àÇEÄ,ì,è,Ü,·□B



