

ff[f^ f}f[fWff

ff[f^ f}f[fWff,đŽg—p,;,é,ÆMicrosoft Jet ff[f^fx[fX,đV,μ,ñiñ-,;é,±,Æ,â,À,«,Û,·B,Û,½AŠeŽiC`Ž®,lf[f^fx[fX,đ²,x,½,èAf}fbfv,;é,±,Æ,â,À,«,Û,·B,Û,½AŠO•”ff[f^fx[fX,©,cfAf^fbf` fe[fuf<,đññ-,;é,±,Æ,à,À,«,Û,·B

ff[f^ f}f[fWff

ñV<Kff[f^fx[fX,ìññ=

ñV<Kfe[fuf<,ìññ=

ñV<KfCf”ffbfNfX,ìññ=

fCf”ffbfNfX’C%oÁŽž,ìfGf%oñI

[ftf@fCf<] fñfif...ñ[,ìfRf}f”fh

fe[fuf<,ìff[f^,ì’€ñ]

ff[f^fx[fX flfufWfFfNfg,ì-¼’O•t,̄<K¥

fe[fuf<ŠÖ,ìfŠfCñI[Vf+f”

fe[fuf<,ìfAf^fbf`

’½’ì’½fŠfCñI[Vf+f”

SQL fXfe[fqfñf”fg

ff[f^ f]f[fWff

, ±, ĩfAvfšP[fVf#f“, đŽg—p, ·, é, Æ Microsoft Jet ff[f^fx[fX, đV, μ, ñ, ·, é, ±, Æ, ð, Å, «, Û, ·B, Û, ½AŠeŽíCŽ`Ž®, ĩff[f^fx[fX, đ’², x, ½, èAf}fbfv, ·, é, ±, Æ, ð, Å, «, Û, ·B, Û, ½AŠO•”ff[f^fx[fX, ©, çfAf^fbf` fe[fuf<, đñ, ·, é, ±, Æ, à, Å, «, Û, ·BŽÿ, ĩ·\, ĩAf[f^fx[fX, ĩŽí—p, Æ, »), ĩff[f^fx[fX, É’Ī, μ, Å%Å”\, É’€ñ, đŽí, μ, Å, ç, Û, ·B

ff[f^fx[fX, ĩŽí—p %oÅ”\, É’€ñ

Microsoft Access	ñ, · AfAf^fbf` Af}fbfv
Paradox 3.XA4.X	fAf^fbf` Af}fbfv
dBASE IIIAIV	fAf^fbf` Af}fbfv
FoxPro 2.0A2.5	fAf^fbf` Af}fbfv
Btrieve	fAf^fbf` Af}fbfv
ODBC	fAf^fbf` Af}fbfv

Visual Basic , ĩ Microsoft Access , Æ” , ĩff[f^fx[fX fGf“fWf“, đŽg—p, μ, Û, ·B Visual Basic , Û, ½, ĩff[f^f}f[fWff, Åñ, ·, μ, ½ff[f^fx[fX, ĩ Microsoft Access , Å Microsoft Access , Åñ, ·, μ, ½ff[f^fx[fX, ĩ Visual Basic , , æ, ĩff[f^f}f[fWff, Åñ—, Å, «, Û, ·B, ±, ĩfwf<fv ftf@fCf<, ĩ Visual Basic , Û, ½, ĩ Jet ff[f^fx[fX (Visual Basic Microsoft Access A, Û, ½, ĩff[f^f}f[fWff, Åñ, ·, μ, ½ff[f^fx[fX) , đ’ñ, É, μ, Å, ç, Û, ·B

V<Kff[f^fx[fX,ì]ì-
SÖ~A□€-Ú

ff[f^f}f[]fWff,Å[]- ,μ,½ff[f^fx[fX,Í Microsoft Jet ff[f^fx[fX,Å, ,è[]AMicrosoft Access Version 2.0
, ,æ,Ñ Visual Basic Version 4.0 ,ì-¼•ù,Å•Ò[]W, ,é,±,Æ,ª,Å,«,Û,·[]B

[ff[f^f}f[]fWff] fEjBf"fhfE,ì [ftf@fCf<] - [V<Kff[f^fx[fX,ì]ì-] fRf}f"fh,ð'ì'ð,μ,Û,·[]Bff[f^fx[fX
ftf@fCf<,ð'Û'¶,·,éftfHf<f_,ð'ì'ð,μ,Û,·[]B[V<KftfHf<f_,ð[]ì- ,·,é,Æ,«,ì[]A[V,μ,çftfHf<f_,ì[]ì-]
f{f^f",ð'ì'ð,μ,Û,·[]BŽŸ,Éftf@fCf<-¼,ð"ü-í,μ,Û,·[]B,È, "[]Aftf@fCf<-¼,ìŠg'£Žq,É,í .MDB ,ðŽw'è,μ,Û,·[]B,±
,ì_fCfAf[]fO f{fbfNfX,Å[]ASù'¶,ì .MDB ftf@fCf<,ì-¼'O,ð"ü-í,μ,½,è[]A'ì'ð,·,é,±,Æ,ì,Å,«,Û,¹,ñ[]B[•Û'¶]
f{f^f",ð'ì'ð,μ,Å[]A[V,μ,çff[f^fx[fX-¼,ð[]Ÿ'è,μ,Û,·[]B

[]V,μ,çff[f^fx[fX ftf@fCf<,ð[]ì- ,μ,½,ç[]Aff[f^,ðŠì"[][,·,éfe[][fuf<[]AftfB[][f<fh[]A, ,æ,ÑfCf"fffbfNfX,ð'Ç
%oÅ,μ,Û,·[]B

ŠÖ~A€-Ú

V<Kfe[fuf<.l]i

V<Kfe [fuf<,l]i~
 ŠÖ~A€-Ü

ff[f^fx][fX,iff[f^,íA,·,x,Äfe[fuf<,ÉŠi"["³,é,Ü,·BSeffe[fuf<,íA1
 ,Á,Ü,½,í·;],lftfB[f<fh,l[W,Ü,è,Æ,μ,Á'è<³,é,Ü,·BSeftfB[f<fh,l[Aff[f^CE^AfTfCfY[A,·,æ,Ñ,»¹¼,í'
 ®[<,ðŽw'è,μ,ÄŠi"["³,é,éff[f^,íŽí—p,ðŽ!,μ,Ü,·B

fe[fuf<]i~³,Ä,íAŠÖ~A,·,éff[f^,ðfOf<[fv%»³,μ,Ü,·B,½,Æ,í,íABIBLIO.MDB fTf"fvf<
 ff[f^fx][fX,Ä,íAŠe"o"ÄŽÐ,ÉSÖ,·,éí·ñ,^a Publishers fe[fuf<,ÉŠi"["³,é,Ä,ç,Ü,·B,Ü,½A1
 ,Á,í"o"ÄŽÐ,^a·;],í"ðÐ,·,æ,Ñ·;],í"ŽÖ,í"·,ð"o"Ä,·,é,½,ßA"ŽÖ,·,æ,Ñ"ðÐ,ÉSÖ,·,éí·ñ,íA·É,lfe[fuf<
 uf<,É,»¹¼,éŠi"["³,é,Ä,ç,Ü,·B

V<Kfe [fuf<,l]i~

1. fe[fuf<,ðV,μ,í~³,·,é,É,íA[fe[fuf</fNfGfŠ][f fCfAf]fO f{fbfNfX,í [V<K]i~
 ,ð'í'ð,μ,Ü,·B[V<Kfe[fuf<,í'Ç%Á] f fCfAf]fO f{fbfNfX,^a·\Ž!,³,é,Ü,·B
2. fe[fuf<-¼,ÆftfB[f<fh-¼,ð"ü—í,μ[Aff[f^CE^] f{fbfNfX, ©,çff[f^CE^,ð'í'ð,μ,Ü,·BŽŸ,É [·,]
 f{f^f",ð'í'ð,μ,Ä[AftfB[f<fh-¼,ðfŠfXfg,É'Ç%Á,μ,Ü,·BfŠfXfg"à,ÄftfB[f<fh-¼,ð"ü"®¹,·,é,É,íA[ä,Ö]
 ,·,æ,Ñ [%º,Ö] f{f^f",ð'í'ð,μ,Ü,·B
3. fe[fuf<,ð·Ü'¶,·,é,É,íA[OK] f{f^f",ð'í'ð,μ,Ü,·B
 ŽŸ,l{f^f",ðŽg—p,μ,Äfe[fuf<,ð^—,·,é,±,Æ,^aÄ,«¹,Ü,·B

f{f^f"

"à—e

[Š],)	Žw'è,μ,½ff[f^fx][fX,íŠù'¶,lfe[fuf<,ðŠ],«[Aff[f^,ð·\Ž!,μ,Ü,·B
[V<K]i~)	[V,μ,fe[fuf<,ði~ ³ ,μ,Ü,·B
[fffUfCf"]	Šù'¶,lfe[fuf<,ðŠ],«[Afe[fuf<,íV'ç,ð·\Ž!,Ü,½,íC ³ ,μ,Ü,·B
[í]œ]	Šù'¶,lfe[fuf<,ðí]œ,μ,Ü,·B
[Af^fbf` fe[fuf<]	[V,μ,çfe[fuf<,lAf^fbf` [A,Ü,½,íŠù'¶,lfe[fuf<,íÄAf^fbf`,ðs,ç ,Ü,·B
[ŠfCE][fvf#"]	fe[fuf<ŠÖ,lff[f^,íŠÖ~A·t,·,ð'è< ³ ,μ,Ü,·B

ftfB[f<fh-¼,íV·¶,íA[Aff[f^fx][fX fGf"fwf",íŽí—p,É,æ,Ä,Ä^Ü,É,è,Ü,·BJet
 ff[f^fx][fX,Ä,íAftfB[f<fh-¼,íV·¶,íA'¼,lff[f^fx][fX flfufWfFfNfg,íV
 ·¶,Æ"·,¶,Ä,·B[uff[f^fx][fX flfufWfFfNfg,l-¼'·t,·K'¥v,ðŽQ[Æ,μ,Ä,-
 ,¾,¾,ç[Bff[f^CE^,íAftfB[f<fh,ÉŠi"["³,é,Ä,ç,éí·ñ,íŽí—p[A,½,Æ,í,íA]Žš,Ü,½,í·¶Žš—
 ñ,ðŸ'è,μ,Ü,·B,Ü,Æ,ñ,ç,lff[f^CE^,Ä,íAftfCfY,íŽ©"®"í,ÉŸ'è,³,é,Ü,·BfefLXfg
 ftfB[f<fh,Ä,íAftfB[f<fh,íÄ'á·K—vfofCfG",ð"ü—í,μ,Ü,·B,½,¾,μ[AfCEfR[fh,íÄ'á·,íA2,000
 fofCfG,É]ŠCEÄ,³,é,Ä,ç,Ü,·B

' [ff[f^fx][fX,ÉftfB[f<fh,ð'Ç%Á,·,é,±,Æ,í,Ä,«¹,Ü,·,ª[AftfB[f<fh,í-
 ¼'·t,ð·íX[A]C³A,Ü,½,í]œ,·,ééê¶,íAfe[fuf<'S'í,ðí]œ,μ[ASeftfB[f<fh,ð,à,x^è"x]i~³,·,é·K—
 v,^a,è,Ü,·B,μ,½,^aÄ,Ä[Afe[fuf<,ðYCEv,·,é,Æ,«¹,í'Ó,μ,Ä,¾,¾,ç]B

ŠÖ~A€-Ú

Šù'ŋ.ìfe[fuf<,ðŠ].

ff[f^fx[fX\ç,ì•ïX

fe[fuf<,ìííœ

fe[]fuf<,i[]'¢
 SÖ~A[]€-Ü

- K-v,ÉftfB[]f<fh,ð,·,x,Ä[]i[]-µ,½CEä,Áfe[]fuf<,i[]'¢,ð•Ö[]W,·,é,É,í[]A[fe[]fuf</fNfGfŠ[]] f_fCfA[]f[]O f{fbfNfX,i^è—,©,çfe[]fuf<,ð'ìð,µ[]A[fffUfCf''] f{f^f",ð'ìð,µ,Ä [fe[]fuf< fGfffBf^] f_fCfA[]f[]O f{fbfNfX,ðŠ},«,Ü,·[]B
 ŽY,ìf{f^f",ðŽg—p,µ,Ä[]Afe[]fuf<,i[]'¢,ð•ì[]X,·,é,±,Æ,ª,Ä,«,Ü,·[]B

f{f^f"	"à-e
[•Ö[]W]	Šù'[],ìftfB[]f<fh,ð•Ö[]W,µ,Ü,·[]B
['Ç%oÁ]	[]V,µ,çftfB[]f<fh,ð'Ç%oÁ,µ,Ü,·[]B
[]i[]œ]	Šù'[],ìftfB[]f<fh,ð[]i[]œ,µ,Ü,·[]B
[fCf"fffbfNfX]	fCf"fffbfNfX,ð•Ö[]W[]A'Ç%oÁ[]A,Ü,½,í[]i[]œ,µ,Ü,·[]B
[fL[]]	ŽáfL[][,·,æ,ÑŠO•"fL[][,ð'ìð,µ,Ü,·[]B
[•Ä,[],é]	[fe[]fuf< fGfffBf^] f_fCfA[]f[]O f{fbfNfX,ð•Ä,[],Ü,·[]B

- [fefLfXfg fGfffBf^] f_fCfA[]f[]O f{fbfNfX,i [fCf"fffbfNfX] f{f^f",ð'ìð,µ,Ä[]A[fCf"fffbfNfX] f_fCfA[]f[]O f{fbfNfX,ðŠ},«,Ü,·[]B['Ç%oA] f{f^f",ð'ìð,µ,Ä[]Afe[]fuf<,É•K-v,ÉfCf"fffbfNfX,ð[]i[]-µ,Ü,·[]B
 'Éí[]A,±,ìfCf"fffbfNfX,ðŽg—
 p,µ,Ä[]AfpftfH[]f}f^fX,ðCEü[]ä,³,¹,½,è[]Afe[]fuf<"à,ì[]d•i,µ,½fCEfR[]f[h,ð[]i[]œ,µ,Ü,·[]B

ftfB[]f<fh,i[]è[]±,Æ"^-—,É[]A[fCf"fffbfNfX-¼,i[]\•[],í[]Afff[]f^fx[]fX fGf"fwf",ìŽí—
 p,É,æ,Ä,Ä^Ü,É,è,Ü,·[]BJet ff[]f^fx[]fX,Ä,í[]A[fCf"fffbfNfX-¼,i[]\•[],í[]A'¼,ìff[]f^fx[]fX flfufWfFfNfg,ì[]\•[],Æ"~,[],Ä,·[]B[]uff[]f^fx[]fX flfufWfFfNfg,ì-¼'°•t,~<K'¥[]v,ðŽQ[]Æ,µ,Ä,³,¼,³,ç[]B

- ^è—,©,ç 1,Ä,Ü,½,í,·;[]',ìftfB[]f<fh-¼,ð'ìð,µ[]A['Ç%oÁ] f{f^f",ð'ìð,µ,Ä[]A,±,é,ç,ìftfB[]f<fh-¼,ð [fCf"fffbfNfX'+,ìftfB[]f<fh] f{fbfNfX,É'Ç%oÁ,µ,Ü,·[]B
 ,±,é,ç,ìftfB[]f<fh,i"à-e,É,æ,è[]A,Ç,ì,æ,±,Éfe[]fuf<,ð•Ä,x'Ö,ì,é,©[]A,Ü,½,í,Ç,ì,æ,±
 ,ÉCE%oÉ,ð•Ö,·,©,ð[]Y'è,µ,Ü,·[]BfCf"fffbfNfX,ð[]i[]-·,·,é,Æ,«[]AftfB[]f<fh",É[]\$CEÄ,í,è,Ü,¹,ñ,ª[]AftfB[]f<fh-¼'S'ì,ì'·,³,í 254 •[]Žš^É"à,É[]\$CEÄ,³,é,Ä,ç
 ,Ü,·[]B,³,ç,É[]A^è•",ìftfB[]f<fh,ìfCf"fffbfNfX,Æ,µ,ÄŽw'è,Ä,«,Ü,¹,ñ[]B,½,Æ,ì,í[]Afff,CE^,ìftfB[]f<fh,à
 OLE flfufWfFfNfgCE^,ìftfB[]f<fh,ìŽw'è,Ä,«,Ü,¹,ñ[]B

- Visual Basic ,Ä[]A,±,ìfCf"fffbfNfX,ðŠì,Éfe[]fuf<"à,ìfCEfR[]f[h,ì[]d•i,ð"ð,·,é,É,í[]A['l-v<[]] ,·,æ,Ñ [CEÄ—
 LfCf"fffbfNfX] f^fFfbfN f{fbfNfX,ðflf",É,µ,Ü,·[]BVisual Basic ,Ä,±
 ,ìfCf"fffbfNfX,ðŽáfCf"fffbfNfX,Æ,µ,Ä[]Y'è,·,é,É,í[]A[ŽáfL[]] f^fFfbfN f{fbfNfX,ðflf",É,µ,Ü,·[]B

- ['Ç%oÁ-[] ,[]#] ,Ü,½,í ['Ç%oÁ-[]~[]#] f{f^f",ð'ìð,µ,Ä[]A,±,ìfCf"fffbfNfX,ðŠì,Éfe[]fuf<,i•Ä,x'Ö,ì•ù-
 @,ðŽw'è,µ,Ü,·[]B

- K-v,ÉfCf"fffbfNfX,ð,·,x,Ä[]i[]-µ,½,ç[]A[OK] f{f^f",ð'ìð,µ,Ü,·[]B

ff[]f^fx[]fX[]'¢,ð[]i[]-µ,½CEä[]A,»,ìff[]f^fx[]fX,Éff[]f^,ð"ü—í,·,é,½,ß,ì Visual Basic
 fAfvfŠfP[]fVf#f",ð[]i[]-µ,½,è[]Afff[]f^f]f[]f[]fWff,ðŽg—
 p,µ,Äfe[]fuf<,ðŠ},«'¼[]Ü•Ö[]W,µ,½,è,Ä,«,Ü,·[]B[]uŠù'[],ìfe[]fuf<,ðŠ},[]v,·,æ,Ñ[]uff[]f^fx[]fX[]'¢
 ,ì•ì[]X[]v,ðŽQ[]Æ,µ,Ä,³,¼,³,ç[]B

ŠÖ~A€-Ú

Šù'ŋ.ìfe[fuf<,ðš].

ff[f^fx[fX\ç,ì•ïX

fe[fuf<,ìííœ

Šù‘ŋ, ìfe [fuf<, ðŠ],
ŠÖ~A [€-Ú]

Šù‘ŋ, ìfe [fuf<, ðŠ], ,É, í [A [ftj@fCf<] - [ff [f^fx [fX, ðŠ],] fRf}f“fh, ð‘l’ð, µ [Aftj@fCf<, ðŽw’è, µ, Ä [Š],]
f{f^f“ , ð‘l’ð, µ, Ü, · [B [fe [fuf</fNfGfŠ [] f_fCfAf [fO f{fbfNfX, l^è—, ©, çfe [fuf<-¼, ð‘l’ð, µ [A [Š],]
, ð‘l’ð, µ, Ü, · [B

ŠÖ~A€-Ú

V<Kfe[fuf<.l]i

fe[]fuf<,i[]í[]œ
SÖ~A[]€-Ú

Šù'¶,ife[]fuf<,đ[]í[]œ,·,é,É,í[]A[]ftf@fCf<} - [ff[]f^fx[]fX,đŠJ,] fRf}f"fh,đ'l'đ,μ[]Aftf@fCf<,đŽw'è,μ,Ä [ŠJ,]
f{f^f",đ'l'đ,μ,Ü,·[]B[]fe[]fuf</fNfGfŠ[][] f_jCfAf[]fO f{fbfNfX,í^è——,©,çfe[]fuf<-¼,đ'l'đ,μ[]A[]í[]œ]
f{f^f",đ'l'đ,μ,Ü,·[]B[]fA^fbf`
fe[]fuf<,đ[]í[]œ,μ,Ä,à€³,ife[]fuf<,í[]í[]œ,³,ê,·[]AfA^fbf` ,ì[]Ý'è,¾,¯,ª[]í[]œ,³,ê,Ü,·[]B

ŠÖ~A€-Ú

V<Kfe[fuf<.l]i

ff[f^fx[fX\c,i•iX

[fe[fuf</fNfGfŠ[] f_fCfAf[]fO f{fbfNfX,i^è—,©,çŠù‘¶,ife[fuf<-¼,ð‘l’ð,μ[]A[ffUfCf“]
f{f^f“,ð‘l’ð,μ,Å[]A[fe[fuf< fGfffBf^] f_fCfAf[]fO f{fbfNfX,ðŠ),«,Û,·[]B,±,lf_fCfAf[]fO
f{fbfNfX,Å[]AftfB[]f<fh,i•Ò[]W[]A‘Ç%°Å[]A,“,æ,N[]i[]œ,ð,μ,½,è[]AfL[],ðZw’è,Å,«,Û,·[]B

□V<KfCf“ffbfNfX,ìì□-

1. [fe□[fuf</fNfGfŠ□] f_fCfAf□fO f_{fbfNfX,ÅŠù'¶,ìfe□[fuf<-¼,ð'ì'ð,μ□A[fffUfCf"] f{f^f",ð'ì'ð,μ,Û,·□B[fe□[fuf< fGfffBf^] f_fCfAf□fO f_{fbfNfX,ª•\Ž;³,ê,Û,·□B
2. [fCf“ffbfNfX] f{f^f",ð'ì'ð,μ□A[‘Ç%oÁ] f{f^f",ð'ì'ð,μ,Û,·□BfCf“ffbfNfX-¼,ð“ü—Í,μ□A•K—v,È□€— Û,ð□Ý'è,μ,Û,·□B[fe□[fuf<'t,ìftfB□[f<fh] f{fbfNfX,©,ç 1 ,Ä,Û,½,Í•;□",ìftfB□[f<fh-¼,ð'ì'ð,μ□A[‘Ç%oÁ] f{f^f",ð'ì'ð,μ,Û,·□B
 'ì'ð,μ,½ftfB□[f<fh-¼,Í□A[fCf“ffbfNfX't,ìftfB□[f<fh] f{fbfNfX,É^Ú“ @,μ,Û,·□B,±,ê,ç,ìftfB□[f<fh,ì“à— e,É,æ,è□A,Ç,ì,æ,α,Éfe□[fuf<,ð•Ä,x'Ö,ì,é,©□A,Û,½,ì,Ç,ì,æ,α
 ,ÉÇ<%oÉ,ð•Ö,;©,ð□Ý'è,μ,Û,·□BfCf“ffbfNfX,ð□□-,·,é,Æ,«□AftfB□[f<fh□”,É□\$ÇÄ,ì, ,è,Û,¹,ñ,ª□AftfB□[f<fh-¼'S'ì,ì',³,Í 254 •¶ŽŠ^É“à,É□\$ÇÄ,³,ê,Ä,ç
 ,Û,·□B,³,ç,É□A^è•”,ìftfB□[f<fh,ÍfCf“ffbfNfX,Æ,μ,ÄŽw'è,Ä,«,Û,¹,ñ□B,½,Æ,ì,Í□A□f,ÇE^,ìftfB□[f<fh,â OLE flfufWfFfNfgÇE^,ìftfB□[f<fh,ÍŽw'è,Ä,«,Û,¹,ñ□Bfe□[fuf<,É•K—v,ÈfCf“ffbfNfX,ð,·,x,Ä□□-,μ,Û,·□B
 ftfB□[f<fh,ì□ê□±,Æ“—l,É□A fCf“ffbfNfX-¼,ì□\•¶,Íff□[f^f×□[fX fGf“fWf“,ìŽí—
 p,É,æ,Ä,Ä^Û,È,è,Û,·□BMicrosoft Jet ff□[f^f×□[fX,Ä,Í□A fCf“ffbfNfX-¼,ì□\•¶,Í□A'¼,Íff□[f^f×□[fX
 flfufWfFfNfg,ì□\•¶,Æ“—,¶,Ä,·□B□uff□[f^f×□[fX flfufWfFfNfg,ì-¼'0•t,~<K'¥□v,ðŽQ□Æ,μ,Ä,,¾,³,ç□B
3. •K—v,ÈfCf“ffbfNfX,ð,·,x,Ä□□-,μ,½,ç□A[OK] f{f^f",ð'ì'ð,μ,Û,·□B

'□ É□í□A fCf“ffbfNfX,ðŽg—
 p,μ,Ä□AfpftfH□[f}f“fX,ðÇEü□ã,³,½,è□Afe□[fuf<“à,ì□d• ifÇE fR□[fh,ð□í□œ,μ,Û,·□B

[ftf@fCf<] f[]ffj...[][,lfRf})f“fh

[ftf@fCf<] f[]ffj...[][,Å,í[]AZÿ,lfRf})f“fh,ð—~—p,Å,«,Û,·[]B

fRf})f“fh

[]V<Kff[]f^fx[]fX,ì[]i[]-]

[ff[]f^fx[]fX,ðŠ,]

[ff[]f^fx[]fX,ì[]Å“K%»]

[ff[]f^fx[]fX,ì[]İŠ·]

[ff[]f^fx[]fX,ì[]Ã[]+%»]

[ff[]f^fx[]fX,ì[]%»ð“Ç]

[ff[]f^fx[]fX,ì[]C·œ]

[ff[]f^f})f[]f[]Wff,ì[]|—~]

fCf“fffbfNfX’Ç%ooÁžž,lfGf%oo[]

fCf“fffbfNfX,đ[]□→,·,é,Æ,«[]AftfB[]lf<fh[]”,É[]\$CEÀ,Í, ,è,Ü,¹,ñ,^a[]AftfB[]lf<fh-¼’S’ì,ì’³,í 254

•¶Žš^É“à,É[]\$CEA,³,ê,Á,ç

,Ü,·[]B,³,ç,É[]A^è•”,lf[]fB[]lf<fh,lfCf“fffbfNfX,Æ,μ,Ăžw’è,Á,«,Ü,¹,ñ[]B,½,Æ,!,î[]Af[]f,CE^,lf[]fB[]lf<fh,Ü,½,í
OLE flfufWfFfNfg,lf[]fB[]lf<fh,Ížw’è,Á,«,Ü,¹,ñ[]B

ff[fuf<,lff[f^,l'€]

ff[f^,δ^—,·,é,É,íA,Ü,·,fe[fuf<,δš],«Aš],ç,½fe[fuf<,É•K—v,È^—,δs,ç,Ü,·B

- fCFR[fh,ì"à—
e,δ•ìX,·,é,É,íAšeftfB[f<fh,δ'l'δ,μ,Äff[f^,δ•òW,μ,Ü,·B•ìXCEãA•É,ìfCFR[fh,É^Ú"®,·,é,ÆA•ìX"à
—e,³ff[f^fx[fX,É•Ú'¶,³,ê,Ü,·B
- V,μ,çfCFR[fh,ðfe[fuf<,ìÅCEã,É'Ç%Á,·,é,É,íA['Ç%Á] f{f^f",δ'l'δ,μAftfB[f<fh,Éff[f^,δ"ü—
í,μ,Ü,·B[XV] f{f^f",δ'l'δ,μ,Á•ìX"à—e,δ•Ú'¶,μ,Ü,·B
- fJfCF"fg fCFR[fh,ðí[œ,·,é,É,íA[í[œ]
f{f^f",δ'l'δ,μ,Ü,·BfCFR[fh,í,·,®,Éí[œ,³,êA•œCE³,Å,«,Ü,¹,ñB
- "Á'è,ìfCFR[fh,ðCE©,Á,·,é,É,íA[CEÿ[ð] f{f^f",δ'l'δ,μ,Ü,·BCEÿ[ð,·,éftfB[f<fhA%
%ožžžqA,·,æ,Ñ'l,δ'l'δ,μ,Ü,·B,±,ìž®,ì\•¶,íAVisual Basic ,lf"fofCf" fwf<fv,Åž!,³,é,é Find f\fbfh,ì\
•¶,Æ"~,¶,Å,·B'Èí[A,±,ì\•¶,íASQL (Structured Query Language) ,ì WHERE <à,ì\•¶,Æž—,Ä,ç,Ü,·B
- fCFR[fh,ðÄ,Ñžæ"¾,·,é,É,íA[Ä•ž!] f{f^f",δ'l'δ,μ,Ü,·B

ff[]f^fx[]fX flfufWfFfNfg,ì-¼'O•t,¯<K'¥

Visual Basic ff[]f^fx[]fX flfufWfFfNfg,ì-¼'O•t,¯,ÉŠÖ,μ,Ä[]A'Á'è,ì<K'¥,ª, ,è,Ü,·[]BVisual Basic ,Å,í[]A[]Å'å 64
•¶Žš,ìff[]f^fx[]fX flfufWfFfNfg-¼,ð[]Ý'è,Å,«,Ü,·[]BflfufWfFfNfg-
¼,Æ,μ,Ä[]AfAf<ftf@fxfbfg[]A,Đ,ç,ª,È[]Afj^fjfi[]A[]"Žš[]AfXfy[]fX[]A, ",æ,Ñ"ÁŽê•¶Žš,ì^è•",ð'g,Ý[]#,í,¹,Ä[]Ý'
è,Å,«,Ü,·[]B,½,¾,μ[]A'ÁŽê•¶Žš,ìfsfŠflfh (.)[]AŠ'Q•„ (!)[]A, ",æ,ÑŠp,©,Á,± ([]),ÍŽg—
p,Å,«,Ü,¹,ñ[]B,Ü,½[]A[]æ"ª,ÉfXfy[]fX,ð"ü,ê,½,è[]A[]\$€ä•¶Žš (ASCII fR[]fh,ª 0 ,©,ç 32 ,Ü,Å,ì•¶Žš) ,ðŽg—
p, : ,é,±,Æ,í,Å,«,Ü,¹,ñ[]B

fe[]fuf<ŠÖ,lfŠfCE[]fVf#f“

lfe[]fuf</fNfGfŠ[] f_fCfAf[]fO f{fbfNfX,ì^è—,©,çfe[]fuf<-¼,ð'ì'ð,μ,Û,·[]B[fŠfCE[]fVf#f“]
f{f^f“,ð'ì'ð,·,é,Æ[]A[fŠfCE[]fVf#f“] f_fCfAf[]fO f{fbfNfX,·\Ž,³,è,Û,·[]B,±,lfŠfCE[]fVf#f“] f_fCfAf[]fO
f{fbfNfX,Å[]Aff[]f^fx[]fX,lfe[]fuf<ŠÖ,lfŠfCE[]fVf#f“,ð'è<,·,é,±
,Æ,ª,Å,«,Û,·[]B·i“],lfe[]fuf<,ðŠì,ÉfNfGfŠ[]L,ðŽÅ[]s,μ,½,è[]AftfH[]f€,âfCEf[]fg,ð^—,·,é[]è[]#[]Aff[]f^
f}f[]fVff,í[]A,±,è,ç,lfŠfCE[]fVf#f“,ðŽg—p,μ,Å[]AŠÖ~A,·,éff[]f^,ðCEY[]ð,μ,Û,·[]B

[Žâfe[]fuf<]

ff[]f^fx[]fX,lfe[]fuf<,ð^è—·\Ž,μ,Û,·[]B·È,lfe[]fuf<,ÆŠÖ~A,Å,·,éŽâfL[]
ftfB[]f<fh,ðŠÛ,bfe[]fuf<,ð'ì'ð,μ,Û,·[]B

[ŽâfL[] ftfB[]f<fh]

'ì'ð,μ,½Žâfe[]fuf<,lŽâfL[] ftfB[]f<fh,ð·\Ž,μ,Û,·[]B

[Ží—B]

fŠfCE[]fVf#f“,ì·û-@,ð[]A[^è'ì^è],Û,½,í [^è'ì'½],ì,ç,·,è,©,©,ç'ì'ð,μ,Û,·[]B

fifvVf#f“ []à-¾

[^è'ì^è] fe[]fuf<ŠÖ,ì^è'ì^èfŠfCE[]fVf#f“,ðŠm—š,μ,Û,·[]B

[^è'ì'½] fe[]fuf<ŠÖ,ì^è'ì'½fŠfCE[]fVf#f“,ðŠm—š,μ,Û,·[]B

[fŠfCE[]fVf#f“ fe[]fuf<]

ff[]f^fx[]fX,ì,·,x,Å,lfe[]fuf<,ð^è—·\Ž,μ,Û,·[]BŽâfe[]fuf<,ÆŠÖ~A·t,·,éfe[]fuf<,ð'ì'ð,μ,Û,·[]B

[^è'v,·,éftfB[]f<fh]

ŠÖ~Afe[]fuf<,lftfB[]f<fh,ð^è—·\Ž,μ,Û,·[]BŽâfe[]fuf<,lŽâfL[] ftfB[]f<fh,Æ^è'v,·,éftfB[]f<fh,ð'ì'ð,μ,Û,·[]B

[ŽQ[]Æ[]@[]#[]<]

ŽQ[]Æ[]@[]#[]<,ð“K—p,·,é,½,ß,É,í[]A,±,lf^fFfbfN f{fbfNfX,ðflf“,É,μ,Û,·[]BŽQ[]Æ[]@[]#[]<,ð“K—
p,μ,È,ç[]è[]#,í[]A,±,lf^fFfbfN f{fbfNfX,ðflft,É,μ,Û,·[]B

[’Ç%oÁ] f{f^f“

Žw'è,μ,½“à—e,É[],Á,Å[]AfŠfCE[]fVf#f“,ð[]i—,μ,Û,·[]B

[]i[]œ] f{f^f“

fŠfCE[]fVf#f“,ð[]i[]œ,μ,Û,·[]B

[CEó·â]

ŠÖ~Afe[]fuf<,ì^t,©,çŽâfL[] ftfB[]f<fh,Æ“·,¶-¼'0,ðŽ[],ÂftfB[]f<fh,ð'T,μ,Û,·[]B

[·Å,¶,é] f{f^f“

f_fCfAf[]fO f{fbfNfX,ð·Å,¶,Û,·[]B

fe[]fuf<,lfAf^fbf`

1. [fe[]fuf</fNfGfŠ[]] f_fCfAf[]fO f_{fbfNfX,} [fAf^fbf` fe[]fuf<] f{f^f“,đ'ı'đ,μ,Ü,·[]B [fAf^fbf` fe[]fuf<] f_fCfAf[]fO f_{fbfNfX,}^{\Z},^,ê,Ü,·[]B
2. []V<K] f{f^f“,đ'ı'đ,μ[]AftfB[]f<fh,É[]î•ñ,đ“ü—ı,μ[]A[fAf^fbf`] f{f^f“,đ'ı'đ,μ,Ü,·[]B ,±,ı'€[],É,æ,è[]A•É,ıff[]f^fx[]fX fAfvfŠfP[]fVf#f“,ıfe[]fuf<,Æ,ıfŠf“fN,^[]—,^,é[]A,»ı,ıfe[]fuf<,ıff[]f^,ı•\Zı,“,æ,Ñ•Ò[]W,^,Ä,«,é,æ,ı ,É,É,è,Ü,·[]BfAf^fbf` fe[]fuf<,ı[]ACE^,ıff[]f^fx[]fX fAfvfŠfP[]fVf#f“,Ä,à[]E p'±,μ,ÄZg— p,Ä,«[]Aff[]f^fx[]fX f}fı[]fWff,©,ç,àZg—p,Ä,«,Ü,·[]B^1/4,ı Microsoft Jet ff[]f^fx[]fX,ıfe[]fuf<,àfAf^fbf` ,ı,é,±,Æ,^,Ä,«,Ü,·[]B•É,ıff[]f^fx[]fX,ıfe[]fuf<,đfAf^fbf` ,ı,é,± ,Æ,É,æ,è[]A,»ı,ıff[]f^fx[]fX,đS),©,É,„Ä,àfe[]fuf<,đZg—p,ı,é,±,Æ,^,Ä,«,Ü,·[]B

'[] Paradox[]ABtrieve[]A,Ü,1/2,ı SQL fT[]fo[] ff[]f^fx[]fX,ıfe[]fuf<,đfAf^fbf` ,ı,é[]ê[]#[]A^1/4,ıfAfvfŠfP[]fVf#f“,Äı'è,^,é,1/2fpfXf[]fh,đZw'è,μ,É,ı,é,ı,É,ç, É,ç,Æ,«,^,è,Ü,·[]Bfe[]fuf<,đfAf^fbf` ,μ[]AfpfXf[]fh,đZw'è,ı,é,Æ[]Aff[]f^ f}fı[]fWff,ı[]ACEä,Ä,± ,ıfe[]fuf<,đS),ı,±,Æ,^,Ä,«,é,æ,ı,É[]A,±,ı,ıfpfXf[]fh,đff[]f^fx[]fX,ÉŠi“ı,μ,Ü,·[]B,±,ı<@“ı,ı[]ASQL fT[]fo[] ff[]f^fx[]fX,Ä,ı[]AÉ—^%Ä“ı,Ä,·[]B,Ü,1/2[]AfpfXf[]fh,đ•Ü[]Eı,ı,é,1/2,ı,É[]AfpfXf[]fh,đZı,ÄfAf^fbf` fe[]fuf<,đSÜ,ıff[]f^fx[]fX,đ^ Ä[]+%»ı,ı,é[]ê[]#,à, ,è,Ü,·[]B

Zÿ,ıff[]f^fx[]fX fAfvfŠfP[]fVf#f“,ıfe[]fuf<,đfAf^fbf` ,ı,é,±,Æ,^,Ä,«,Ü,·[]B

- Microsoft Access (Š,ç,Ä,ç,éff[]f^fx[]fX^ÈŠ,ıff[]f^fx[]fX)
- Paradox (version 3.x[]A4.x ,ı .DB ftf@fCf<)
- FoxPro (version 2.0[]A2.5 ,ı .DBF ftf@fCf<)
- dBASE III[]AdBASE IV (.DBF ftf@fCf<)
- Btrieve (ff[]f^'è<`ftf@fCf< FILE.DDF[]AFIELD.DDF •t,«)
- ODBC

SQL ff[]f^fx[]fX,đ[]—,ı,é[]ê[]#[]A[SQL Server f[]Ofıf“] f_fCfAf[]fO f_{fbfNfX,}^{\Z},^,ê,Ü,·[]BŠe ODBC fhf %ofCfo,ıf_fCfAf[]fO f_{fbfNfX,}ıfıvıvıf#f“,É,Ä,ç,Ä,ı[]AODBC fhf%ofCfo,ÉŠÖ,ı,é[]î•ñ,đZQ[]Æ,μ,Ä,^,ç,ç[]B

ŠÖ•“fe[]fuf<,đfAf^fbf` ,μ,1/2,ç[]A[fe[]fuf< fGffBf^] f_fCfAf[]fO f_{fbfNfX,}É[]A,»ı,ıfe[]fuf<,ıftfB[]f<fh fvıpfpfefB,đı'è,μ,Ü,·[]B

fAf^fbf` fe[]fuf<,ı[]ç,ı•ı[]X,Ä,«,Ü,ı,ñ,^[]AftfB[]f<fh fvıpfpfefB,ıı'è,ı,é,±,Æ,^,Ä,«,Ü,·[]B

'½'í'½fŠfCE[fVf#f" ,l'è<`

2 ,Â,ife[fuf<ŠÔ,i'½'í'½fŠfCE[fVf#f" ,Â,íA^ê•û,ife[fuf<,i 1
,Â,ifCEfR[fh,ð'¼•û,ife[fuf<,i•i" ,ifCEfR[fh,ÉŠÔ~A•t,~,é,±,Æ,ª,Â,«,Ü,·B

'½'í'½fŠfCE[fVf#f" ,ð'è<` ,·,é,É,íA,±,ì 2 ,Â,ife[fuf<,ðCE<#f,·,é,½,ß,ì 3 ,Â,ß,ife[fuf<,ðì□¬,μ,Ü,·B

1. '½'í'½fŠfCE[fVf#f" ,ð'è<` ,·,éfe[fuf<,ðì□¬,μ,Ü,·B

2. 3 ,Â,ß,ife[fuf<(CE<#f—p,ife[fuf<),ðì□¬,μA,±,ife[fuf<,É'¼,ì 2 ,Â,ife[fuf<,ìŽšfL[
ftfB[f<fh,ðY'è,μ,Ü,·B,±,ife[fuf<,Â,íAZšfL[ftfB[f<fh,íAŠO•"fL[,Æ,μ,Ä<"\,μ,Ü,·B

3. 3 ,Â,ß,ife[fuf<,Â,íAZšfL[,ðA'¼,ì 2 ,Â,ife[fuf<,ìŽšfL[ftfB[f<fh,ð,·,x,ÄŠÜ,p,æ,α,ÉY'è,μ,Ü,·B

4. 2,Â,ìŽšfe[fuf<,Æ 3 ,Â,ß,ife[fuf<,Æ,ìŠÔ,ÉA^ê'½fŠfCE[fVf#f" ,ð,»,è,¼,è'è<` ,μ,Ü,·B

'□ 3 ,Â,ß,ife[fuf<,É,íA'Éí,ife[fuf<ì□¬,Æ"~—l,ÉAZšfL[ftfB[f<fh^ÈŠO,iftfB[f<fh,ð'Ç%Á,·,é,±
,Æ,ª,Â,«,Ü,·B

SQL fXfe[]fgf[]f“fg

ff[]f^fx[]fX,É'í,μ,ÄfNfGfŠ[][,δŽÀ[]s,·,é,É,í[]A,Ü,·ff[]f^fx[]fX,δ'í'δ,μ[]AŠ],<,Ü,·[]B[SQL fXfe[]fgf[]f“fg]
f_CfAf[]fO f{fbfNfX,Ä[]AfNfGfŠ[][,δ“ü—í,μ[]A[ZA[]s] f{f^f“,δ'í'δ,μ,Ü,·[]BfNfGfŠ[][,δ•Ü'¶],·,é,É,í[]A[•Ü'¶]
f{f^f“,δ'í'δ,μ[]AŽŸ,É QueryDef flfufWfFfNfg-¼,δ“ü—í,μ[]A[OK] f{f^f“,δ'í'δ,μ,Ü,·[]B[SQL fXfe[]fgf[]f“fg]
f_CfAf[]fO f{fbfNfX,ì[]Ý'è,“,æ,N“ü—í,δ[]A<Z,·,é,É,í[]A[fNfŠfA] f{f^f“,δ'í'δ,μ,Ü,·[]B

