B. Ein-/Ausgabemasken

ausleihe.per

```
database biblio
screen size 24 by 80
{ \g+------------------------------------------------------------------------+\g
\g|                                AUSLEIHE                                |\g
\g+------------------------------------------------------------------------+\g
\g|\g Benutzernr        [f000          ]                                    \g|\g
\g|\g                                                                       \g|\g
\g|\g Signatur                        Ausleihdatum    Rueckgabedatum       \g|\g
\g|\g [f001           ]               [f002      ]    [f003       ]        \g|\g
\g|\g [f001           ]               [f002      ]    [f003       ]        \g|\g
\g|\g [f001           ]               [f002      ]    [f003       ]        \g|\g
\g|\g [f001           ]               [f002      ]    [f003       ]        \g|\g
\g|\g [f001           ]               [f002      ]    [f003       ]        \g|\g
\g+------------------------------------------------------------------------+\g
\g|\g   Eingabe beenden  : ESC     Eingabe abbrechen : CTRL-C                \g|\g
\g|\g   Programm beenden : CTRL-\                                           \g|\g
\g+------------------------------------------------------------------------+\g
}end

tables
ausleihe

attributes
f000 = ausleihe.benutzernr, REQUIRED;
f001 = ausleihe.signatur, AUTONEXT,REQUIRED;
f002 = ausleihe.ausleihdatum, AUTONEXT, REQUIRED;
f003 = ausleihe.rueckgabedatum, REQUIRED;
end

instructions
screen record s_aus1[5](ausleihe.signatur THRU ausleihe.rueckgabedatum) end
```

ben_konto.per

```
database FORMONLY
screen size 28 by 80
{
\g+------------------------------------------------------------------------+\g
\g|                     BENUTZER KONTO                                     |\g
\g+------------------------------------------------------------------------+\g
\g|\g Benutzernr  [f000    ]                                                \g|\g
\g|\g Nachname    [f001                  ]  Vorname  [f002          ]      \g|\g
\g|\g Adresse     [f003                   ]                                 \g|\g
\g|\g             [f004    ] [f005                ]                        \g|\g
\g|\g                                                                      \g|\g
\g|\g Signatur   Ausleihdatum  Rueckgabedatum  Saeumnisgebuehr             \g|\g
\g|\g [f006     ] [f007       ]  [f008       ] [f009               ] DM   \g|\g
\g|\g [f006     ] [f007       ]  [f008       ] [f009               ] DM   \g|\g
\g|\g [f006     ] [f007       ]  [f008       ] [f009               ] DM   \g|\g
\g|\g [f006     ] [f007       ]  [f008       ] [f009               ] DM   \g|\g
\g|\g [f006     ] [f007       ]  [f008       ] [f009               ] DM   \g|\g
\g+------------------------------------------------------------------------+\g
\g|\g     Anzeigen beenden : ESC    Programm beenden : Ctrl-\                \g|\g
\g+------------------------------------------------------------------------+\g
```

```
} end

attributes
f000 = FORMONLY.benutzernr;
f001 = FORMONLY.nachname;
f002 = FORMONLY.vorname;
f003 = FORMONLY.adresse;
f004 = FORMONLY.plz;
f005 = FORMONLY.ort;
f006 = FORMONLY.signatur;
f007 = FORMONLY.ausleihdatum;
f008 = FORMONLY.rueckgabedatum;
f009 = FORMONLY.saeumnisgebuehr;
end

instructions
screen record s_ben_konto[5](FORMONLY.signatur THRU
FORMONLY.saeumnisgebuehr)
end
```

benu_tab.per

```
database biblio
screen size 24 by 80
{
\g+----------------------------------------------------------------------------+\g
\g|                                BENUTZER FORM                               \g|\g
\g+----------------------------------------------------------------------------+\g
\g|\g                                                                           \g|\g
\g|\g     Benutzernr          [f000    ]                                      \g|\g
\g|\g     Nachname            [f001                ]                          \g|\g
\g|\g     Vorname             [f002                ]                          \g|\g
\g|\g     Adresse             [f003                          ]                \g|\g
\g|\g     PLZ                 [f004 ]                                         \g|\g
\g|\g     Ort                 [f005                ]                          \g|\g
\g+----------------------------------------------------------------------------+\g
\g|       Eingabe beenden  : ESC    Eingabe abbrechen : CTRL-C                 \g|\g
\g|       Programm beenden : CTRL-\                                             \g|\g
\g+----------------------------------------------------------------------------+\g
}
end

tables
benutzer
ort

attributes
f000 = benutzer.benutzernr, REQUIRED;
f001 = benutzer.nachname,REQUIRED;
f002 = benutzer.vorname,REQUIRED;
f003 = benutzer.adresse,REQUIRED;f004 = benutzer.plz,REQUIRED, PICTURE =
"#####"; f005 = ort.ort, NOENTRY;

endinstructions
delimiters "[]"
end
```

buch_tab.per

```
database biblio
screen size 30 by 80
{ \g+----------------------------------------------------------------------------+\g
\g|                                BUCH FORM                                   \g|\g
\g+----------------------------------------------------------------------------+\g
\g|\g Signatur     [f000        ]             Standort    [f001   ]         \g|\g
\g|\g Titel        [f002                                        ]           \g|\g
\g|\g              [f002                                        ]           \g|\g
\g|\g Nachname     [f003               ]     Vorname     [f004        ]    \g|\g
\g|\g              [f005               ]                 [f006        ]    \g|\g
\g|\g              [f007               ]                 [f008        ]    \g|\g
\g|\g              [f009               ]                 [f010        ]    \g|\g
\g|\g Auflage                   [f011  ]     Verlag      [f012        ]    \g|\g
\g|\g Erscheinjahr           [f013     ]     Ort         [f014        ]    \g|\g
\g|\g Isbn                [f015         ]     Preis       [f016]           \g|\g
\g|\g Sprache     [f017               ]     Orig./ueb.  [a]              \g|\g
\g+-------------------------------------------------------------------------+\g
\g|       Eingabe beenden : ESC          Programm abbrechen : CTRL- \       \g|\g
\g+----------------------------------------------------------------------------+\g
}
end

tables
buch

attributes
f000 = buch.signatur, REQUIRED;
f001 = buch.standort;
f002 = buch.titel, WORDWRAP COMPRESS, REQUIRED;
f003 = buch.nachname1, REQUIRED;
f004 = buch.vorname1;
f005 = buch.nachname2;
f006 = buch.vorname2;
f007 = buch.nachname3;
f008 = buch.vorname3;
f009 = buch.nachname4;
f010 = buch.vorname4;
f011 = buch.auflage, DEFAULT = 1;
f012 = buch.verlag;
f013 = buch.erscheinj;
f014 = buch.ort;
f015 = buch.isbn, PICTURE = "#-###-#####-#"; f016 = buch.preis; f017 =
buch.sprache;
a = buch.orig_ueb, DEFAULT="o", INCLUDE = (o,u), COMMENTS ="o:original,
                  u:uebersetzung"
end
instructions
delimiters "[]"
end
```

buch1_tab.per

```
database biblio
screen size 30 by 80
{\g+-------------------------------------------------------------------------+\g
\g|                              BUCH ERFASSEN                              \g|\g
\g+-------------------------------------------------------------------------+\g
\g|\g Signatur  [f000                      ]      Standort       [f001]    \g|\g
\g|\g Titel        [f002                                        ]          \g|\g
\g|\g              [f002                                        ]          \g|\g
\g|\g Nachname     [f003                  ]      Vorname  [f004     ]     \g|\g
\g|\g              [f005                  ]               [f006]          \g|\g
\g|\g              [f007                  ]               [f008]          \g|\g
\g|\g              [f009                  ]               [f010]          \g|\g
\g|\g Auflage      [f011                  ]      Verlag   [f012]          \g|\g
\g|\g Erscheinjahr [f013        ]                 Ort     [f014]          \g|\g
\g|\g Isbn               [f015             ]      Preis          [f016]    \g|\g
\g|\g Sprache      [f017                  ]      Orig./Ueb. [a]           \g|\g
\g|\g                                                                     \g|\g
\g|\g Deskriptor            [f018                                ]        \g|\g
\g|\g                       [f018                                 ]       \g|\g
\g|\g                       [f018                                 ]       \g|\g
\g+-------------------------------------------------------------------------+\g
\g|\g   Eingabe beenden: ESC   Eingabe abbrechen : CTRL-C                   \g|\g
\g|\g   Programmabbruch: CTRL-\                                            \g|\g
\g+-------------------------------------------------------------------------+\g
}
end

tables
buch
desdef

attributes
f000 = buch.signatur, REQUIRED;
f001 = buch.standort;
f002 = buch.titel, WORDWRAP COMPRESS, REQUIRED;
f003 = buch.nachname1, REQUIRED;
f004 = buch.vorname1;
f005 = buch.nachname2;
f006 = buch.vorname2;
f007 = buch.nachname3;
f008 = buch.vorname3;
f009 = buch.nachname4;
f010 = buch.vorname4;
f011 = buch.auflage, DEFAULT = 1;
f012 = buch.verlag;
f013 = buch.erscheinj;
f014 = buch.ort;
f016 = buch.preis;
f015 = buch.isbn, PICTURE = "#-###-#####-#";
a = buch.orig_ueb, DEFAULT="o", INCLUDE = (o,u), COMMENTS ="o:original,
         u:uebersetzung";
f017 = buch.sprache;
f018 = desdef.desname;
end

instructions
delimiters "[]"
screen record s_buch (buch.*) screen record s_des[3](desdef.desname) end
```

des_tab.per

```
database biblio
screen size 24 by 80
{
\g+------------------------------------------------------------------------+\g
\g|                         NACH STICHWORTE SUCHEN                         \g|\g
\g+------------------------------------------------------------------------+\g
\g|\g                                                                      \g|\g
\g|\g        Schlagwoerter       [f000                          ]          \g|\g
\g|\g                            [f000                          ]          \g|\g
\g|\g                            [f000                          ]          \g|\g
\g|\g                                                                      \g|\g
\g+------------------------------------------------------------------------+\g
\g|       Eingabe beenden  : ESC          Eingabe abbrechen : CTRL-C        \g|\g
\g|       Programm beenden : CTRL-\                                         \g|\g
\g+------------------------------------------------------------------------+\g
}
end

tables
desdef

attributes
f000 = desdef.desname;
end

instructions
screen record s_des[3] (desdef.desname)
end
```

lan1_tab.per

```
database FORMONLY
screen size 24 by 80
{
\g+------------------------------------------------------------------------+\g
\g|                       RESERVIERUNGSLISTE                               \g|\g
\g+------------------------------------------------------------------------+\g
\g|\g  Benutzernr       Signatur                   Reservierungsdatum      \g|\g
\g|\g  [f000       ]       [f001          ]             [f002        ]    \g|\g
\g|\g  [f000       ]       [f001          ]             [f002        ]    \g|\g
\g|\g  [f000       ]       [f001          ]             [f002        ]    \g|\g
\g|\g  [f000       ]       [f001          ]             [f002        ]    \g|\g
\g|\g  [f000       ]       [f001          ]             [f002        ]    \g|\g
\g|\g                                                                      \g|\g
\g+------------------------------------------------------------------------+\g
\g|       Anzeigen beenden  : ESC     Programm beenden : CTRL-\            \g|\g
\g+------------------------------------------------------------------------+\g
}end

attributes
f000 = FORMONLY.benutzernr;
f001 = FORMONLY.signatur;
f002 = FORMONLY.res_datum;
end

instructions
screen record
s_lan1[5](FORMONLY.benutzernr,FORMONLY.signatur,FORMONLY.res_datum); end
```

lan2_tab.per

```
database biblio
screen size 24 by 80
{ \g+-------------------------------------------------------------------------+\g
\g|                              VERLAENGERUNG                                \g|\g
\g+-------------------------------------------------------------------------+\g
\g|\g              Benutzernr      [f000    ]                                 \g|\g
\g|\g                                                                        \g|\g
\g|\g              Signatur        [f001                  ]                  \g|\g
\g|\g              Titel           [f002                                ]    \g|\g
\g|\g                              [f002                                ]    \g|\g
\g|\g              Ausleihdatum    [f003      ]                              \g|\g
\g|\g              Rueckgabedatum  [f004      ]                              \g|\g
\g|\g              Saeumnisgebuehr [f005      ] DM                           \g|\g
\g|\g                                                                        \g|\g
\g+-------------------------------------------------------------------------+\g
\g|\g   Eingabe beenden  : ESC          Eingabe abbrechen : CTRL-C            \g|\g
\g|     Programm beenden : CTRL-\                                            \g|\g
\g+-------------------------------------------------------------------------+\g
} end

tables
ausleihe
buch

attributes
f000 = ausleihe.benutzernr, NOENTRY, AUTONEXT;
f001 = ausleihe.signatur, NOENTRY, AUTONEXT;
f002 = buch.titel;
f003 = ausleihe.ausleihdatum, AUTONEXT;
f004 = ausleihe.rueckgabedatum;
f005 = FORMONLY.saeumnisgebuehr;
end

instructions
screen record s_lan2(ausleihe.signatur THRU
ausleihe.rueckgabedatum)
end
```

res_tab.per

```
database biblio
screen size 24 by 80
{
\g+-------------------------------------------------------------------------+\g
\g|                          RESERVIERUNG                                   \g|\g
\g+-------------------------------------------------------------------------+\g
\g|\g Benutzernr        [f000    ]                                          \g|\g
\g|\g                                                                       \g|\g
\g|\g Signatur                          Reservierungsdatum                 \g|\g
\g|\g [f001           ]                 [f002      ]                       \g|\g
\g|\g [f001           ]                 [f002      ]                       \g|\g
\g|\g [f001           ]                 [f002      ]                       \g|\g
\g|\g [f001           ]                 [f002      ]                       \g|\g
\g|\g [f001           ]                 [f002      ]                       \g|\g
\g+-------------------------------------------------------------------------+\g
\g|\g   Eingabe beenden   : ESC      Eingabe abbrechen : CTRL-C             \g|\g
 \g|\g   Programm beenden  : CTRL-\                                         \g|\g
\g+-------------------------------------------------------------------------+\g
```

```
} end

tables
reservierung

attributes
f000 = reservierung.benutzernr,REQUIRED;
f001 = reservierung.signatur, AUTONEXT, REQUIRED;
f002 = reservierung.res_datum, REQUIRED;
end

instructions
screen record s_res2[5](reservierung.signatur, reservierung.res_datum)
end
```

res_zur.per

```
database biblio
screen size 24 by 80

{ \g+--------------------------------------------------------------------------+\g
\g|                      RESERVIERUNG ZURUECKNEHMEN                           \g|\g
\g+--------------------------------------------------------------------------+\g
\g|\g           Benutzernr      [f000    ]                                    \g|\g
\g|\g                                                                         \g|\g
\g|\g           Signatur        [f001           ]                            \g|\g
\g|\g           Titel           [f002           ]                            \g|\g
\g|\g                           [f002           ]                            \g|\g
\g|\g            Res.Datum      [f003      ]                                 \g|\g
\g|\g                                                                         \g|\g
\g+--------------------------------------------------------------------------+\g
\g|\g   Eingabe beenden   : ESC         Eingabe abbrechen : CTRL-C             \g|\g
\g|\g   Programm beenden  : CTRL-\                                            \g|\g
\g+--------------------------------------------------------------------------+\g
}
end

tables
reservierung
buch

attributes
f000 = reservierung.benutzernr;
f001 = reservierung.signatur;
f002 = buch.titel;
f003 = reservierung.res_datum;
end
```

rueckgabe.per

```
database biblio
screen size 24 by 80
{ \g+--------------------------------------------------------------------------+\g
\g|                                  RUECKGABE                                 \g|\g
\g+--------------------------------------------------------------------------+\g
\g|\g              Benutzernr         [f000    ]                               \g|\g
\g|\g                                                                          \g|\g
\g|\g              Signatur           [f001           ]                       \g|\g
\g|\g              Titel              [f002                             ]     \g|\g
\g|\g                                 [f002                             ]     \g|\g
\g|\g              Ausleihdatum       [f003      ]                            \g|\g
\g|\g              Rueckgabedatum  [f004      ]                               \g|\g
\g|\g              Saeumnisgebuehr [f005      ] DM                            \g|\g
\g|\g                                                                          \g|\g
\g+--------------------------------------------------------------------------+\g
\g|\g   Eingabe beenden   : ESC         Eingabe abbrechen : CTRL-C             \g|\g
\g|\g   Programm beenden  : CTRL-\                                             \g|\g
\g+--------------------------------------------------------------------------+\g
}end

tables
ausleihe

attributes
f000 = ausleihe.benutzernr;
f001 = ausleihe.signatur;
f002 = FORMONLY.titel;
f003 = ausleihe.ausleihdatum;
f004 = ausleihe.rueckgabedatum;
f005 = FORMONLY.saeumnisgebuehr;
end
```

stat_a.per

```
database formonly
screen size 24 by 80
{ ------------------------------------------------------------------------
          Anzahl der in der Bibliothek existierenden
            Buecher                          : [f000]
            Zeitschriften                    : [f001]

          Anzahl der Benutzer             :  [f002]

          Anzahl der ausgeliehenen Medien :  [f003]

          Anzahl der reservierten Medien  :  [f004]
}
attributes
f000 = FORMONLY.buecher;
f001 = FORMONLY.zeitschrift;
f002 = FORMONLY.benutzer;
f003 = FORMONLY.aus_dok;
f004 = FORMONLY.res_dok;
end

instructions
delimiters "  "
screen record s_sta (FORMONLY.buecher THRU FORMONLY.res_dok) end
```

 # stat_b.per

```
database formonly
screen size 24 by 80
{ ------------------------------------------------------------------------
          Anzahl der in der Bibliothek existierenden
             Buecher       :  [f000]
             Zeitschriften :  [f001]
}

attributes
f000 = FORMONLY.buecher;
f001 = FORMONLY.zeitschrift;
end

instructions
delimiters "  "
screen record s_sta (FORMONLY.buecher THRU FORMONLY.zeitschrift) end
```