

Appendix A

Database Schema for PDCDB

```
/* =====
*/
/* Database name: PDCDB */
/* DBMS name: Microsoft SQL Server 2000 */
/* Created on: 12/15/2003 11:06 AM */
/* =====
*/

/* =====
*/
/* Table: PATIENT */
/* =====
*/
create table PATIENT
(
    PATIENTID int identity,
    OCCUPATION varchar(100) null ,
    EMAIL varchar(70) null
    ,
    DATEOFBIRTH datetime null ,
    AGE int null
    constraint CKC_AGE_PATIENT check (AGE >= 18),
    GENDER char(1) null ,
    MARITALSTATUS char(1) null ,
    ETHNICORIGIN char(20) null ,
    PASSWORD char(15) null ,
    EDUCATION varchar(50) null ,
    HOUSEHOLD_INCOME char(20) null ,
    INCOME_LEVEL char(20) null ,
    RESIDENCE varchar(100) null ,
    OCCUPATION_STATUS varchar(100) null ,
    ACCOMMODATION_STATUS varchar(100) null ,
    CONTROLANSWER char(20) null ,
    CONTROLQUESTION int null ,
    DATEFIRSTAWARESYPMTOP datetime null ,
    constraint PK_PATIENT primary key (PATIENTID)
)
go

/* =====
*/
/* Table: MEDICATION */
/* =====
*/
```

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/* =====
*/
create table MEDICATION
(
    MEDICATIONID          int          not null,
    DRUGSDOSAGE           char(25)      null ,
    NUMBEROFTIMESPERDAY   int          null ,
    TOTALDAILYINTAKE      char(25)      null ,
    PRESCRIBED_MEDICINES  char(10)      null
        constraint CKC_PRESCRIBED_MEDICI_MEDICATI check (
            PRESCRIBED_MEDICINES in ('1','2','3','4','5')),
    CURRENT_MEDICINES     char(30)      null
        constraint CKC_CURRENT_MEDICINES_MEDICATI check (
            CURRENT_MEDICINES in ('M','S','E','Z','C','Sy','R','B','Br','P','L','Ca','Pr','A')),
    CHANGED_MEDICATION    char(25)      null
        constraint CKC_CHANGED_MEDICATIO_MEDICATI check (
            CHANGED_MEDICATION in ('C','C1','C2','C3','A1','A2','O')),
    MEDICATION_SIDE_EFFECTS char(10)      null
        constraint CKC_MEDICATION_SIDE_E_MEDICATI check (
            MEDICATION_SIDE_EFFECTS in ('Y','N','D')),
    ATTITUDE_MEDICINE     char(25)      null
        constraint CKC_ATTITUDE_MEDICINE_MEDICATI check (
            ATTITUDE_MEDICINE in ('C','N')),
    REMEMBERING_MEDICINE  char(3)        null
        constraint CKC_REMEMBERING_MEDIC_MEDICATI check (
            REMEMBERING_MEDICINE in ('Y','N')),
    MEDICINE_TAKING_HABITS char(30)      null
        constraint CKC_MEDICINE_TAKING_H_MEDICATI check (
            MEDICINE_TAKING_HABITS in ('R','Sf','Of')),
    NUMBER_DIFFERENT_MEDICINES int          null ,
    constraint PK_MEDICATION primary key (MEDICATIONID)
)
go

/* =====
*/
/* Table: PDTYPE */
/* =====
*/
create table PDTYPE
(
    PDTYPEID              int          not null,
    PATIENTID             int          not null,
    MIXED                 char(1)       null ,
    AKINESIADOMINANT      char(1)       null ,
    TREMORDOMINANT        char(1)       null ,
    PIGD                 char(1)       null ,
    HEMIPD               char(1)       null ,
    FAMILIALPD            char(1)       null ,
    constraint PK_PDTYPE primary key (PDTYPEID)
)

```

```

)
go

/* =====
*/
/* Index: RELATION_280_FK */
/* =====
*/
create index RELATION_280_FK on PDTYPE (PATIENTID)
go

/* =====
*/
/* Table: DAILY_LIVING */
/* =====
*/

alter table daily_living drop constraint ckc_bowel|continence_daily_li

create table DAILY_LIVING
(
    GETOUTBED          char(15)          null ,
    GETUPARMCHAIR      char(15)          null
        constraint CKC_GETUPARMCHAIR_DAILY_LI check (GETUPARMCHAIR in
('Yes','No','Problems')),
    WALKAROUNDHOUSE    char(15)          null
        constraint CKC_WALKAROUNDHOUSE_DAILY_LI check (
        WALKAROUNDHOUSE in ('yes','No','Problems')),
    WALKOUTSIDE         char(15)          null
        constraint CKC_WALKOUTSIDE_DAILY_LI check (WALKOUTSIDE in
('Yes','No','Problems')),
    TRAVELBYTRANSPORT  char(15)          null
        constraint CKC_TRAVELBYTRANSPORT_DAILY_LI check (
        TRAVELBYTRANSPORT in ('yes','lot','some')),
    WALKUPSTAIRS        char(15)          null
        constraint CKC_WALKUPSTAIRS_DAILY_LI check (WALKUPSTAIRS in
('yes','No','lot','some')),
    WALKDOWNSTAIRS      char(15)          null
        constraint CKC_WALKDOWNSTAIRS_DAILY_LI check (
        WALKDOWNSTAIRS in ('yes','no','problems')),
    WASHFACEANDHANDS    char(15)          null
        constraint CKC_WASHFACEANDHANDS_DAILY_LI check (
        WASHFACEANDHANDS in ('yes','no','problems')),
    GETINTOBATH         char(15)          null
        constraint CKC_GETINTOBATH_DAILY_LI check (GETINTOBATH in
('yes','no','wheelchair','walk','stick')),
    URINARYINCONTINENTS int              not null,
    CURRENTDATE         datetime         not null,
    GETDRESSED          char(15)          null ,
    GETUNDRESSED        char(15)          null ,

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    GETOUTBATH          char(15)      null ,
    BRUSHTEETH          char(15)      null ,
    OPENTINS            char(15)      null ,
    POURMILK            char(15)      null ,
    MAKETEA             char(15)      null ,
    HOLDCUP             char(15)      null ,
    CUTFOODKNIFEFORK    char(15)      null ,
    PICKUPOBJECTFLOOR   char(15)      null ,
    INSERTREMOVEELECTRICPLUG_ char(15)      null ,
    DIALTELEPHONE       char(15)      null ,
    HOLDREADNEWSPAPER   char(15)      null ,
    WRITELETTER         char(15)      null ,
    TURNOVERBED         char(15)      null ,
    WASHDISHES          char(15)      not null,
    PATIENTID           int           not null,
    constraint PK_DAILY_LIVING primary key (URINARYINCONTINENTS)
)
go

/* =====
*/
/* Table: PATIENT_STATUS */
/* =====
*/
create table PATIENT_STATUS
(
    STATUSID           int           not null,
    PATIENTID          int           not null,
    RESIDENCE          char(15)      null ,
    CARER              char(15)      null ,
    WORKINGSTATUS      char(15)      null ,
    OCCUPATIONALHEALTHHAZARD char(10)      null ,
    constraint PK_PATIENT_STATUS primary key (STATUSID)
)
go

/* =====
*/
/* Index: RELATION_30_FK */
/* =====
*/
create index RELATION_30_FK on PATIENT_STATUS (PATIENTID)
go

/* =====
*/
/* Table: FAMILYHISTORY */
/* =====
*/
create table FAMILYHISTORY

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```
(
  PATIENTID          int          not null,
  HISTORYID          int          not null,
  PARKINSONSDISEASE  char(1)      null ,
  PARKINSONSSYNDROMES char(1)      null ,
  ESSENTIALTREMOR    char(1)      null ,
  RELATIVES          char(50)      null
  constraint CKC_RELATIVES_FAMILYHI check (RELATIVES in
('1','2','3','4','5')),
  constraint PK_FAMILYHISTORY primary key (PATIENTID, HISTORYID)
)
go

/* =====
*/
/* Index: INHR_179_FK */
/* =====
*/
create index INHR_179_FK on FAMILYHISTORY (PATIENTID)
go

/* =====
*/
/* Table: TOXICITY */
/* =====
*/
create table TOXICITY
(
  PATIENTID          int          not null,
  TOXICID            int          not null,
  PESTICIDES         char(1)      null ,
  GLUES              char(1)      null ,
  HEAVYMETALS        char(1)      null ,
  SOLVENTSPAINTS     char(1)      null ,
  TOXICEXPOSURE      char(1)      null ,
  OTHERTOXICEXPOSURE char(15)     null ,
  constraint PK_TOXICITY primary key (PATIENTID, TOXICID)
)
go

/* =====
*/
/* Index: INHR_179_FK */
/* =====
*/
create index INHR_179_FK on TOXICITY (PATIENTID)
go

/* =====
*/
```

```

/* Table: DRUGEXPOSURE                                     */
/* ===== */
*/
create table DRUGEXPOSURE
(
    PATIENTID          int          not null,
    DRUGSID            int          not null,
    DRUGEXPOSURE        char(1)      null ,
    NEUROLEPTICS        char(1)      null ,
    VESTIBULARSEDATIVES char(1)      null ,
    ANTIDEPRESSANTS     char(1)      null ,
    ANTIEMETICS         char(1)      null ,
    RECREATIONALDRUGS   char(3)      null
        constraint CKC_RECREATIONALDRUGS_DRUGEXPO check (
            RECREATIONALDRUGS in ('Y','N')),
    ALCOHOL             varchar(15)   null ,
    OLFACTION           varchar(15)   null ,
    SMOKINGHABITS       varchar(20)   null
        constraint CKC_SMOKINGHABITS_DRUGEXPO check (SMOKINGHABITS
in ('1','2','3')),
    SMOKINGHISTORY      varchar(15)   null ,
        constraint PK_DRUGEXPOSURE primary key (PATIENTID, DRUGSID)
)
go

/* ===== */
/* */
/* Index: INHR_179_FK                                     */
/* ===== */
/* */
create index INHR_179_FK on DRUGEXPOSURE (PATIENTID)
go

/* ===== */
/* */
/* Table: MORBIDITY                                       */
/* ===== */
/* */
create table MORBIDITY
(
    MORBIDITYID        int          not null,
    PDTYPEID           int          null ,
    HYPERTENSION        char(1)      null ,
    DIABETESMELLITUS    char(1)      null ,
    RESTLESSLEGSYNDROME char(1)      null ,
    CONGESTIVEHEARTDISEASE char(1)   null ,
    STROKE              char(1)      null ,
    DEPRESSION          char(1)      null ,
    CONSTIPATION        char(1)      null

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constraint CKC_CONSTIPATION_MORBIDIT check (CONSTIPATION in
('A','Q','S','R')),
CONSTIPATION_CONCERN      char(10)      null
constraint CKC_CONSTIPATION_CONC_MORBIDIT check (
CONSTIPATION_CONCERN in ('Lo','Li','No')),
ARTHRITIS                 char(30)      null ,
DEMENTIA                  char(30)      null ,
LAXATIVES                  char(30)      null ,
LAXATIVE_TAKEN_GP         char(1)       null
constraint CKC_LAXATIVE_TAKEN_GP_MORBIDIT check (
LAXATIVE_TAKEN_GP in ('Y','N')),
LAXATIVE_TAKEN_PATIENT    char(1)       null
constraint CKC_LAXATIVE_TAKEN_PA_MORBIDIT check (
LAXATIVE_TAKEN_PATIENT in ('Y','N')),
LAXATIVE_CHEMIST          char(30)      null ,
HAEMORRHOIDS              char(1)       null
constraint CKC_HAEMORRHOIDS_MORBIDIT check (HAEMORRHOIDS in
('Y','N')),
CONSTIPATION_HOSPITAL     char(1)       null
constraint CKC_CONSTIPATION_HOSP_MORBIDIT check (
CONSTIPATION_HOSPITAL in ('Y','N')),
SUPPOSITORIES             char(1)       null
constraint CKC_SUPPOSITORIES_MORBIDIT check (SUPPOSITORIES in
('Y','N')),
ENEMA                     char(1)       null
constraint CKC_ENEMA_MORBIDIT check (ENEMA in ('Y','N')),
ENEMA_HOME                char(1)       null
constraint CKC_ENEMA_HOME_MORBIDIT check (ENEMA_HOME in
('H','N')),
SUPPOSITORY_HOME          char(1)       null
constraint CKC_SUPPOSITORY_HOME_MORBIDIT check (
SUPPOSITORY_HOME in ('H','N')),
WALKINGTOILETNIGHT        char(1)       null ,
WALKINGTOTOILET           char(1)       null ,
SEXUALFUNCTION             char(15)      null ,
SEXUALACTIVITY            char(1)       null ,
SPEECH                    char(30)      null ,
FEWER_BOWELS_PERWEEK       char(1)       null
constraint CKC_FEWER_BOWELS_PERW_MORBIDIT check (
FEWER_BOWELS_PERWEEK in ('Y','N')),
INCOMPLETE_EVACUATION     char(1)       null
constraint CKC_INCOMPLETE_EVACUA_MORBIDIT check (
INCOMPLETE_EVACUATION in ('Y','N')),
HARD_STOOLS               char(1)       null
constraint CKC_HARD_STOOLS_MORBIDIT check (HARD_STOOLS in
('Y','N')),
FIBRE_INTAKE              char(1)       null
constraint CKC_FIBRE_INTAKE_MORBIDIT check (FIBRE_INTAKE in
('Y','N')),
FLUID_INTAKE              char(1)       null

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        constraint CKC_FLUID_INTAKE_MORBIDIT check (FLUID_INTAKE in
('Y','N')),
        EXERCISE          char(1)          null
        constraint CKC_EXERCISE_MORBIDIT check (EXERCISE in ('Y','N')),
        CHANGED_DIET      char(1)          null
        constraint CKC_CHANGED_DIET_MORBIDIT check (CHANGED_DIET in
('Y','N')),
        PARTICULAR_FOODS char(1)          null
        constraint CKC_PARTICULAR_FOODS_MORBIDIT check (
        PARTICULAR_FOODS in ('Y','N')),
        OPENING_BOWELS_STRAIN char(1)      null
        constraint CKC_OPENING_BOWELS_ST_MORBIDIT check (
        OPENING_BOWELS_STRAIN in ('Y','N')),
        OTHER              char(30)        null ,
        constraint PK_MORBIDITY primary key (MORBIDITYID)
    )
go

/* =====
*/
/* Index: RELATION_183_FK */
/* =====
*/
create index RELATION_183_FK on MORBIDITY (PDTYPEID)
go

/* =====
*/
/* Table: DRUG_CONCORDANCE */
/* =====
*/
create table DRUG_CONCORDANCE
(
    DRUGCONCORDANCE int not null,
    MEDICATIONID int null ,
    PATIENTID int not null,
    NUMBEROFDRUGS int null ,
    NAMEOFDRUGS varchar(250) null ,
    DRUGSMISSED char(1) null ,
    NAMEOFDRUGSMISSED varchar(250) null ,
    CURRENTDATE datetime null ,
    NUMBEROFTIMESMISSED int null ,
    REASON varchar(100) null ,
    PROPEREXPLANATION varchar(100) null ,
    SIDEEFFECTS varchar(250) null ,
    constraint PK_DRUG_CONCORDANCE primary key (DRUGCONCORDANCE)
)
go

```



```

/* =====
*/
/* Index: RELATION_177_FK */
/* =====
*/
create index RELATION_177_FK on DRUG_CONCORDANCE (MEDICATIONID)
go

/* =====
*/
/* Index: RELATION_282_FK */
/* =====
*/
create index RELATION_282_FK on DRUG_CONCORDANCE (PATIENTID)
go

/* =====
*/
/* Table: NEUROLOGICALEXAMINATION */
/* =====
*/
create table NEUROLOGICALEXAMINATION
(
    NEUROLOGICALID          int          not null,
    PDTYPEID                int          null ,
    BULBAR                  char(1)      null ,
    GAZE                    char(1)      null ,
    EARLYFALLS              char(1)      null ,
    CEREBELLAR              char(1)      null ,
    PYRAMIDAL               char(1)      null ,
    AUTONOMIC               char(1)      null ,
    HANDED                  char(5)      null ,
    COGNITIVEIMPAIRMENT     char(1)      null ,
    constraint PK_NEUROLOGICALEXAMINATION primary key
    (NEUROLOGICALID)
)
go

/* =====
*/
/* Index: RELATION_281_FK */
/* =====
*/
create index RELATION_281_FK on NEUROLOGICALEXAMINATION
(PDTYPEID)
go

/* =====
*/

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/* Table: SYMPTOMS                                     */

/* =====
*/
create table SYMPTOMS
(
    SYMTOMSID            int            not null,
    PDTYPEID            int            null ,
    DIABETESMELLITUS     char(1)        null ,
    DEPRESSION           char(1)        null ,
    SCHIZOPHRENIA        char(10)       null
        constraint CKC_SCHIZOPHRENIA_SYMPTOMS check (SCHIZOPHRENIA in
('Y','N','D')),
    SWALLOWING          char(30)        null ,
    URINARYINCONTINENTS int            null ,
    ANGINA               varchar(10)     null
        constraint CKC_ANGINA_SYMPTOMS check (ANGINA in ('Y','N','D')),
    HEART_ATTACK         varchar(10)     null
        constraint CKC_HEART_ATTACK_SYMPTOMS check (HEART_ATTACK in
('Y','N','D')),
    CHRONIC_HEART_FAILURE varchar(10)    null
        constraint CKC_CHRONIC_HEART_FAI_SYMPTOMS check (
    CHRONIC_HEART_FAILURE in ('Y','N','D')),
    HYPERTENSION_        varchar(10)     null
        constraint CKC_HYPERTENSION__SYMPTOMS check (HYPERTENSION_ in
('Y','N','D')),
    DIABETES             varchar(10)     null
        constraint CKC_DIABETES_SYMPTOMS check (DIABETES in ('Y','N','D')),
    CHRONIC_LUNG_DISEASE_ varchar(10)     null
        constraint CKC_CHRONIC_LUNG_DISE_SYMPTOMS check (
    CHRONIC_LUNG_DISEASE_ in ('Y','N','D')),
    BENIGN_PROSTATE      varchar(10)     null
        constraint CKC_BENIGN_PROSTATE_SYMPTOMS check (
    BENIGN_PROSTATE in ('Y','N','D')),
    TREMOR               char(3)         null
        constraint CKC_TREMOR_SYMPTOMS check (TREMOR in ('Y','N')),
    BODY_AFFECTED        char(70)        null
        constraint CKC_BODY_AFFECTED_SYMPTOMS check (BODY_AFFECTED
in ('O','B','Ba','D','Du')),
    ARTHRITIS            varchar(10)     null
        constraint CKC_ARTHRITIS_SYMPTOMS check (ARTHRITIS in ('Y','N','D')),
        constraint PK_SYMPTOMS primary key (SYMTOMSID)
)
go

/* =====
*/
/* Index: RELATION_613_FK                             */
/* =====
*/

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create index RELATION_613_FK on SYMPTOMS (PDTYPEID)
go

/* =====
*/
/* Table: STAGESPD */
/* =====
*/
create table STAGESPD
(
    PATIENTID          int          not null,
    VISIBLESIGNS       char(50)     null ,
    WALKING            char(50)     null ,
    TURNING            char(50)     null ,
    STANDING           char(50)     null ,
    DATEFIRSTAWARESYMPTOMP  datetime null ,
    STAGESID           int          identity,
    constraint PK_STAGESPD primary key (STAGESID)
)
go

/* =====
*/
/* Table: SIDE_EFFECTS */
/* =====
*/
create table SIDE_EFFECTS
(
    SIDEEFFECTSID      numeric      identity,
    PATIENTID          int          null ,
    CRAMPS             varchar(10)  null
        constraint CKC_CRAMPS_SIDE_EFF check (CRAMPS in ('0','1','2','3','4')),
    PAIN              varchar(10)  null
        constraint CKC_PAIN_SIDE_EFF check (PAIN in ('0','1','2','3','4')),
    BLADDER            varchar(10)  null
        constraint CKC_BLADDER_SIDE_EFF check (BLADDER in ('0','1','2','3','4')),
    BOWEL_PROBLEMS     varchar(10)  null
        constraint CKC_BOWEL_PROBLEMS_SIDE_EFF check (
            BOWEL_PROBLEMS in ('0','1','2','3','4')),
    SEXUAL_PROBLEMS     varchar(10)  null
        constraint CKC_SEXUAL_PROBLEMS_SIDE_EFF check (
            SEXUAL_PROBLEMS in ('0','1','2','3','4')),
    SLEEP_PROBLEMS     varchar(10)  null
        constraint CKC_SLEEP_PROBLEMS_SIDE_EFF check (
            SLEEP_PROBLEMS in ('0','1','2','3','4')),
    SPEECH_PROBLEMS     varchar(10)  null
        constraint CKC_SPEECH_PROBLEMS_SIDE_EFF check (
            SPEECH_PROBLEMS in ('0','1','2','3','4')),
    MOOD_FLUCTUATIONS  varchar(10)  null
        constraint CKC_MOOD_FLUCTUATIONS_SIDE_EFF check (

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        MOOD_FLUCTUATIONS in ('0','1','2','3','4')),
    WORRY          varchar(10)          null
        constraint CKC_WORRY_SIDE_EFF check (WORRY in ('0','1','2','3','4')),
    FLUCTUATIONS   varchar(10)          null
        constraint CKC_FLUCTUATIONS_SIDE_EFF check (FLUCTUATIONS in
('0','1','2','3','4')),
    END_OF_DOSE    varchar(10)          null
        constraint CKC_END_OF_DOSE_SIDE_EFF check (END_OF_DOSE in
('0','1','2','3','4')),
    HALLUCINATIONS varchar(10)          null
        constraint CKC_HALLUCINATIONS_SIDE_EFF check (
        HALLUCINATIONS in ('0','1','2','3','4')),
    VOMITING       varchar(10)          null
        constraint CKC_VOMITING_SIDE_EFF check (VOMITING in ('0','1','2','3','4')),
    NAUSEA         varchar(10)          null
        constraint CKC_NAUSEA_SIDE_EFF check (NAUSEA in ('0','1','2','3','4')),
    DIZZINESS      varchar(10)          null
        constraint CKC_DIZZINESS_SIDE_EFF check (DIZZINESS in ('0','1','2','3','4')),
    SWALLOWING_PROBLEMS varchar(10)          null
        constraint CKC_SWALLOWING_PROBLE_SIDE_EFF check (
        SWALLOWING_PROBLEMS in ('0','1','2','3','4')),
    constraint PK_SIDE_EFFECTS primary key (SIDEFFECTSID)
)
go

/* =====
*/
/* Table: PARKISONS_DURATION */
/* =====
*/

create table PARKISONS_DURATION
(
    DURATIONID          int          not null,
    PATIENTID           int          null ,
    TIME_DIAGNOSED      char(30)     null
        constraint CKC_TIME_DIAGNOSED_PARKISON check (
        TIME_DIAGNOSED in ('1','2','3','4','5','6','7')),
    EXPERIENCE_SYMPTOMS char(30)     null
        constraint CKC_EXPERIENCE_SYMPTO_PARKISON check (
        EXPERIENCE_SYMPTOMS in ('1','2','3','4','5')),
    PROFESSIONAL_DIAGNOSIS__TIME char(30)     null
        constraint CKC_PROFESSIONAL_DIAG_PARKISON check (
        PROFESSIONAL_DIAGNOSIS__TIME in ('1','2','3','4','5','6')),
    PROFESSIONAL_DIAGNOSIS_AFFECT char(50)     not null,
    MEDICAL_TREATMENT_PROBLEMS  cahr(30)     null
        constraint CKC_MEDICAL_TREATMENT_PARKISON check (
        MEDICAL_TREATMENT_PROBLEMS in ('A','U','B','F','O')),
    MEDICAL_TREATMENT_OTHER    char(50)     null ,
    TEST_DIAGNOSIS           char(25)     null
        constraint CKC_TEST_DIAGNOSIS_PARKISON check (

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        TEST_DIAGNOSIS in ('C','M','N','D')),
NAME_HEALTHCAREGIVER      char(15)      null
    constraint CKC_NAME_HEALTHCAREGI_PARKISON check (
        NAME_HEALTHCAREGIVER in ('G','N','Gr','O')),
    constraint PK_PARKISONS_DURATION primary key (DURATIONID)
)
go

alter table PDTYPE
    add constraint FK_PDTYPE_RELATION__PATIENT foreign key (PATIENTID)
        references PATIENT (PATIENTID)
go

alter table DAILY_LIVING
    add constraint FK_DAILY_LI_REF_487_PATIENT foreign key (PATIENTID)
        references PATIENT (PATIENTID)
go

alter table PATIENT_STATUS
    add constraint FK_PATIENT__RELATION__PATIENT foreign key (PATIENTID)
        references PATIENT (PATIENTID)
go

alter table FAMILYHISTORY
    add constraint FK_FAMILYHI_INHR_1793_PATIENT foreign key (PATIENTID)
        references PATIENT (PATIENTID)
go

alter table TOXICITY
    add constraint FK_TOXICITY_INHR_1792_PATIENT foreign key (PATIENTID)
        references PATIENT (PATIENTID)
go

alter table DRUGEXPOSURE
    add constraint FK_DRUGEXPO_INHR_179_PATIENT foreign key (PATIENTID)
        references PATIENT (PATIENTID)
go

alter table MORBIDITY
    add constraint FK_MORBIDIT_RELATION__PDTYPE foreign key (PDTYPEID)
        references PDTYPE (PDTYPEID)
go

alter table DRUG_CONCORDANCE
    add constraint FK_DRUG_CON_RELATION__MEDICATI foreign key
(MEDICATIONID)
        references MEDICATION (MEDICATIONID)
go

alter table DRUG_CONCORDANCE

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    add constraint FK_DRUG_CON_RELATION__PATIENT foreign key
(PATIENTID)
    references PATIENT (PATIENTID)
go

alter table NEUROLOGICALEXAMINATION
    add constraint FK_NEUROLOG_RELATION__PDTYPE foreign key (PDTYPEID)
    references PDTYPE (PDTYPEID)
go

alter table SYMPTOMS
    add constraint FK_SYMPTOMS_RELATION__PDTYPE foreign key (PDTYPEID)
    references PDTYPE (PDTYPEID)
go

alter table SYMPTOMS
    add constraint FK_SYMPTOMS_REF_483_DAILY_LI foreign key
(PATIENTID)
    references DAILY_LIVING (PATIENTID)
go

alter table STAGESPD
    add constraint FK_STAGESPD_REF_811_PATIENT foreign key (PATIENTID)
    references PATIENT (PATIENTID)
go

alter table SIDE_EFFECTS
    add constraint FK_SIDE_EFF_REF_1876_PATIENT foreign key (PATIENTID)
    references PATIENT (PATIENTID)
go

alter table PARKISONS_DURATION
    add constraint FK_PARKISON_REF_1872_PATIENT foreign key (PATIENTID)
    references PATIENT (PATIENTID)
go

```

Database Schema for PDPHDB

```

/* =====
*/
/* Database name: PDPHDB */
/* DBMS name: Microsoft SQL Server 2000 */
/* Created on: 1/7/2005 7:54 PM */
/* =====
*/

/* =====
*/

```

```

/* Table: SERVICES                                     */
/* ===== */
*/
create table SERVICES
(
    SERVICESID          int          not null,
    ORGANIZATION        char(20)     null ,
    ACUTE_PROBLEMS      char(255)     null ,
    EXERCISE_OPPORTUNITIES char(50)   null ,
    FOCUS               char(50)      null ,
    PHYSIOTHERAPY_SUPPORT char(50)    null ,
    ASSESSMENT_COORDINATION char(50)  null ,
    SERVICEDEFINITION   varchar(300)  null ,
    constraint PK_SERVICES primary key (SERVICESID)
)
go

/* ===== */
/* */
/* Table: CARERS2                                     */
/* ===== */
*/
create table CARERS2
(
    CARERSID2          int          not null,
    ACTIVITIES_SUPPORTED2 char(30)   null ,
    CUES2              char(30)      null ,
    ADVICE2            char(30)      null ,
    BARRIERS2          char(30)      null ,
    EXERCISEPLAN2      char(30)      null ,
    RESPITE2           char(30)      null ,
    CARERSDEFINITION2  varchar(300)  null ,
    constraint PK_CARERS2 primary key (CARERSID2)
)
go

/* ===== */
/* */
/* Table: ASSESSMENTOUTCOME2                         */
/* ===== */
*/
create table ASSESSMENTOUTCOME2
(
    ASSESSMENTOUTCOMEID2 int          not null,
    DEFINITION3          char(50)     null ,
    constraint PK_ASSESSMENTOUTCOME2 primary key
    (ASSESSMENTOUTCOMEID2)
)
go

```

```

/* =====
*/
/* Table: TEAMAPPROACH2 */
/* =====
*/

```

```

create table TEAMAPPROACH2
(
    TEAMAPPROACHID2          int          not null,
    LIASE2                   char(50)      null ,
    TEAMMEMBERS2             char(50)      null ,
    COMMUNICATE2            char(50)      null ,
    FAMILYMEMBERS2          char(50)      null ,
    TEAMAPPROACHDEFINITION2  varchar(300)  null ,
    constraint PK_TEAMAPPROACH2 primary key (TEAMAPPROACHID2)
)
go

```

```

/* =====
*/
/* Table: MEMBERS2 */
/* =====
*/

```

```

create table MEMBERS2
(
    MEMBERSID2              int          not null,
    PATIENTS2              char(50)      null ,
    FAMILY2                 char(50)      null ,
    AHP2                   char(50)      null ,
    NURSES2                char(30)      null ,
    DOCTORS2               char(30)      null ,
    SPECIALISTNURSES2      char(30)      null ,
    CAREMANAGERS2          char(30)      null ,
    constraint PK_MEMBERS2 primary key (MEMBERSID2)
)
go

```

```

/* =====
*/
/* Table: CARERINFORMATION2 */
/* =====
*/

```

```

create table CARERINFORMATION2
(
    CARERINFORMATIONID2     int          not null,
    SIGNPOSTING_INFORMATION2 char(50)      null ,
    REHABILITATION2         char(50)      null ,
    CARERINFORMATIONDEFINITION2 varchar(300)  null ,
    constraint PK_CARERINFORMATION2 primary key (CARERINFORMATIONID2)
)
go

```



```

/* =====
*/
/* Table: EXTERNALSERVICE */
/* =====
*/
create table EXTERNALSERVICE
(
    SERVICESID          int          not null,
    EXTERNALSERVICEID  int          not null,
    ORGANIZATION        char(20)     null ,
    ACUTE_PROBLEMS      char(255)    null ,
    EXERCISE_OPPORTUNITES char(50)    null ,
    FOCUS               char(50)     null ,
    PHYSIOTHERAPY_SUPPORT char(50)    null ,
    ASSESSMENT_COORDIANTION char(50)  null ,
    SERVICEDEFINITION   varchar(300) null ,
    OPTIMAL_SERVICE     char(50)     null ,
    constraint PK_EXTERNALSERVICE primary key (SERVICESID,
EXTERNALSERVICEID)
)
go

/* =====
*/
/* Index: Inhr_40_FK */
/* =====
*/
create index Inhr_40_FK on EXTERNALSERVICE (SERVICESID)
go

/* =====
*/
/* Table: INTERNALSERVICE */
/* =====
*/
create table INTERNALSERVICE
(
    SERVICESID          int          not null,
    INTERNALSERVICEID  int          not null,
    ORGANIZATION        char(20)     null ,
    ACUTE_PROBLEMS      char(255)    null ,
    EXERCISE_OPPORTUNITES char(50)    null ,
    FOCUS               char(50)     null ,
    PHYSIOTHERAPY_SUPPORT char(50)    null ,
    ASSESSMENT_COORDIANTION char(50)  null ,
    SERVICEDEFINITION   varchar(300) null ,
    FEATURES            char(50)     null ,
    INTERNALSERVICEDEFINITION varchar(300) null ,

```

```

        constraint PK_INTERNALSERVICE primary key (SERVICESID,
INTERNALSERVICEID)
    )
go

/* =====
*/
/* Index: Inhr_40_FK */
/* =====
*/
create index Inhr_40_FK on INTERNALSERVICE (SERVICESID)
go

/* =====
*/
/* Table: TECHNIQUES2 */
/* =====
*/
create table TECHNIQUES2
(
    TECHNIQUESID2          int          not null,
    CARERSID2              int          null ,
    DEFINITION2            char(50)     null ,
    BENEFITS2              char(50)     null ,
    MANUALHANDLING2        char(50)     null ,
    TECHNIQUESDEFINITION2  varchar(300) null ,
    constraint PK_TECHNIQUES2 primary key (TECHNIQUESID2)
)
go

/* =====
*/
/* Index: RELATION_752_FK */
/* =====
*/
create index RELATION_752_FK on TECHNIQUES2 (CARERSID2)
go

/* =====
*/
/* Table: OUTCOMES2 */
/* =====
*/
create table OUTCOMES2
(
    ASSESSMENTOUTCOMEID2   int          not null,
    OUTCOMESID2            int          not null,
    DEFINITION3            char(50)     null ,
    QUALITY_OF_LIFE2       char(50)     null ,
    SLEEP_POSITIONS2       char(50)     null ,

```

```

BALANCE2          char(50)      null ,
ENDURANCE2        char(50)      null ,
DEXTERITY2        char(50)      null ,
MOBILITY2         char(50)      null ,
COMBINED_FUNCTIONAL_PERFORMANC char(50)      null ,
OUTCOMESDEFINITION2 varchar(300) null ,
RESPIRATORY_FUNCTION2 char(50)  null ,
PERCEPTION_OF_CHANGE2 char(50)  null ,
constraint PK_OUTCOMES2 primary key (ASSESSMENTOUTCOMEID2,
OUTCOMESID2)
)
go

/* =====
*/
/* Index: Inhr_1632_FK */
/* =====
*/
create index Inhr_1632_FK on OUTCOMES2 (ASSESSMENTOUTCOMEID2)
go

/* =====
*/
/* Table: TIMING2 */
/* =====
*/
create table TIMING2
(
ASSESSMENTOUTCOMEID2 int not null,
TIMINGID2 int not null,
DEFINITION3 char(50) null ,
WHEN_OUTCOMES_MEASURED2 char(50) null ,
TIMINGDEFINITION2 char(300) not null,
constraint PK_TIMING2 primary key (ASSESSMENTOUTCOMEID2, TIMINGID2)
)
go

/* =====
*/
/* Index: Inhr_1632_FK */
/* =====
*/
create index Inhr_1632_FK on TIMING2 (ASSESSMENTOUTCOMEID2)
go

/* =====
*/
/* Table: CARERNEEDS2 */
/* =====
*/

```

```

create table CARERNEEDS2
(
  ASSESSMENTOUTCOMEID2      int      not null,
  CARERNEEDSID2              int      not null,
  CARERID2                   int      not null,
  CAR_ASSESSMENTOUTCOMEID2   int      null ,
  CAR_CARERNEEDSID2          int      null ,
  DEFINITION3                char(50)  null ,
  HEALTHEDUCATION2           char(50)  null ,
  BACKCARE2                  char(50)  null ,
  CAREANDRESPITECAREPACKAGE2 char(50)  null ,
  FINANCIALSUPPORTBENEFITS2  int      null ,
  CARERNEEDSDEFINITION2      char(300) not null,
  constraint PK_CARERNEEDS2 primary key (ASSESSMENTOUTCOMEID2,
CARERNEEDSID2)
)
go

/* =====
*/
/* Index: RELATION_1682_FK */
/* =====
*/
create index RELATION_1682_FK on CARERNEEDS2 (CARERID2)
go

/* =====
*/
/* Index: RELATION_1362_FK */
/* =====
*/
create index RELATION_1362_FK on CARERNEEDS2
(CAR_ASSESSMENTOUTCOMEID2, CAR_CARERNEEDSID2)
go

/* =====
*/
/* Index: Inhr_1632_FK */
/* =====
*/
create index Inhr_1632_FK on CARERNEEDS2 (ASSESSMENTOUTCOMEID2)
go

/* =====
*/
/* Table: PATIENTINFORMATION2 */
/* =====
*/
create table PATIENTINFORMATION2
(

```

```

CARERINFORMATIONID2      int          not null,
PATIENTINFORMATIONID2    int          not null,
SIGNPOSTING_INFORMATION2 char(50)      null ,
REHABILITATION2          char(50)      null ,
CARERINFORMATIONDEFINITION2 varchar(300) null ,
CONTACTDETAILS2          char(50)      null ,
REHABILITATION_SERVICES2 char(50)      null ,
PATIENTINFORMATIONLEAFLETS2 char(50)    null ,
PATIENTINFORMATIONDEFINITION2 varchar(300) not null,
constraint PK_PATIENTINFORMATION2 primary key
(CARERINFORMATIONID2, PATIENTINFORMATIONID2)
)
go

/* =====
*/
/* Index: Inhr_2572_FK */
/* =====
*/
create index Inhr_2572_FK on PATIENTINFORMATION2
(CARERINFORMATIONID2)
go

/* =====
*/
/* Table: CARERPATIENTNEEDS2 */
/* =====
*/
create table CARERPATIENTNEEDS2
(
  CARERID2          int          not null,
  ASSESSMENTOUTCOMEID2 int        null ,
  CARERNEEDSID2     int          null ,
  MANUALHANDLING3   char(50)     null ,
  EXERCISEPROGRAMME2 char(30)     null ,
  PHYSICALANDEMOTIONALSUPPORT2 char(30) null ,
  PRACTICALHELP2    char(30)     null ,
  CARERPATIENTDEFINITION2 varchar(300) null ,
  constraint PK_CARERPATIENTNEEDS2 primary key (CARERID2)
)
go

/* =====
*/
/* Index: RELATION_1682_FK */
/* =====
*/
create index RELATION_1682_FK on CARERPATIENTNEEDS2
(ASSESSMENTOUTCOMEID2, CARERNEEDSID2)
go

```

```

/* =====
*/
/* Table: INDIVIDUALSERVICE */
/* =====
*/
create table INDIVIDUALSERVICE
(
    SERVICESID          int          not null,
    INDIVIDUALSERVICEID int          not null,
    ORGANIZATION         char(20)     null ,
    ACUTE_PROBLEMS       char(255)    null ,
    EXERCISE_OPPORTUNITIES char(50)    null ,
    FOCUS                char(50)     null ,
    PHYSIOTHERAPY_SUPPORT char(50)    null ,
    ASSESSMENT_COORDINATION char(50)  null ,
    SERVICEDEFINITION    varchar(300) null ,
    CHRONIC_DISEASE_MANAGEMENT char(50) null ,
    FITNESS_TRAINING     char(50)     null ,
    INDIVIDUALSERVICEDEFINITION varchar(300) null ,
    constraint PK_INDIVIDUALSERVICE primary key (SERVICESID,
INDIVIDUALSERVICEID)
)
go

/* =====
*/
/* Index: Inhr_40_FK */
/* =====
*/
create index Inhr_40_FK on INDIVIDUALSERVICE (SERVICESID)
go

/* =====
*/
/* Table: OTHERTECHNIQUES2 */
/* =====
*/
create table OTHERTECHNIQUES2
(
    TECHNIQUESID2          int          not null,
    OTHERTECHNIQUEID2       int          not null,
    OTH_TECHNIQUESID2       int          null ,
    OTH_OTHERTECHNIQUEID2   int          null ,
    CARERSID2              int          null ,
    DEFINITION2            char(50)     null ,
    BENEFITS2              char(50)     null ,
    MANUALHANDLING2        char(50)     null ,
    TECHNIQUESDEFINITION2   varchar(300) null ,
    KINESITHERAPY2         char(50)     null ,

```

```

MECHANICAL_TREATMENT2      char(50)      null ,
PULMONARY_REHABILITATION2  char(50)      null ,
PAINRELIEF2                char(50)      null ,
ELECTRICITY2               char(50)      null ,
RELAXATION2                char(50)      null ,
ALTERNATIVE_MEDICINE2      char(50)      null ,
TECHNIQUEDEFINITION2       varchar(300)   null ,
COGNITIVESTRATEGIES2       char(50)      null ,
CUEINGSTRATEGIES2          char(50)      null ,
WATER_TREATMENT2           char(50)      null ,
THERMAL2                   char(50)      null ,
constraint PK_OTHERTECHNIQUES2 primary key (TECHNIQUESID2,
OTHERTECHNIQUEID2)
)
go

/* =====
*/
/* Index: RELATION_1052_FK */
/* =====
*/
create index RELATION_1052_FK on OTHERTECHNIQUES2
(OTH_TECHNIQUESID2, OTH_OTHERTECHNIQUEID2)
go

/* =====
*/
/* Index: Inhr_1032_FK */
/* =====
*/
create index Inhr_1032_FK on OTHERTECHNIQUES2 (TECHNIQUESID2)
go

/* =====
*/
/* Table: DECISIONMAKING2 */
/* =====
*/
create table DECISIONMAKING2
(
ASSESSMENTOUTCOMEID2      int          not null,
DECISIONMAKING2           int          not null,
DEFINITION3               char(50)      null ,
NEEDSLED2                 char(50)      null ,
PATIENT_LED_GOALS2        char(50)      null ,
CARERGOALS2               char(50)      null ,
TREATMENTPLAN2            char(50)      null ,
DECISIONMAKINGDEFINITION2 varchar(300)   null ,
constraint PK_DECISIONMAKING2 primary key (ASSESSMENTOUTCOMEID2,
DECISIONMAKING2)

```

```

)
go

/* =====
*/
/* Index: Inhr_1632_FK */
/* =====
*/
create index Inhr_1632_FK on DECISIONMAKING2 (ASSESSMENTOUTCOMEID2)
go

/* =====
*/
/* Table: ASSESSMENT2 */
/* =====
*/
create table ASSESSMENT2
(
    ASSESSMENTOUTCOMEID2 int not null,
    ASSESSMENTID2 int not null,
    CAR_ASSESSMENTOUTCOMEID2 int null ,
    CARERNEEDSID2 int null ,
    DEFINITION3 char(50) null ,
    NEUROLOGY2 char(50) null ,
    PHYSIOTHERAPY_SPECIFIC2 char(50) null ,
    BACKGROUND_HISTORY2 char(50) null ,
    RESPIRATORY_SPECIFIC2 char(50) null ,
    ASSESSMENTDEFINITION2 varchar(300) null ,
    constraint PK_ASSESSMENT2 primary key (ASSESSMENTOUTCOMEID2,
ASSESSMENTID2)
)
go

/* =====
*/
/* Index: RELATION_1672_FK */
/* =====
*/
create index RELATION_1672_FK on ASSESSMENT2
(CAR_ASSESSMENTOUTCOMEID2, CARERNEEDSID2)
go

/* =====
*/
/* Index: Inhr_1632_FK */
/* =====
*/
create index Inhr_1632_FK on ASSESSMENT2 (ASSESSMENTOUTCOMEID2)
go

```



```

/* =====
*/
/* Table: COMMUNICATION2 */
/* =====
*/

```

```

create table COMMUNICATION2
(
    COMMUNICATIONID2      int          not null,
    MEMBERSID2            int          null ,
    TEAMAPPROACHID2       int          null ,
    WRITTEN2               char(50)     null ,
    VERBAL2                char(50)     null ,
    ELECTRONIC2            char(50)     null ,
    COMMUNICATIONDEFINITION2 varchar(1000) null ,
    FAMILYCONFERENCE2     char(300)     null ,
    MDTMEETING2           char(30)      null ,
    constraint PK_COMMUNICATION2 primary key (COMMUNICATIONID2)
)
go

```

```

/* =====
*/
/* Index: RELATION_4582_FK */
/* =====
*/

```

```

create index RELATION_4582_FK on COMMUNICATION2 (MEMBERSID2)
go

```

```

/* =====
*/
/* Index: RELATION_4532_FK */
/* =====
*/

```

```

create index RELATION_4532_FK on COMMUNICATION2 (TEAMAPPROACHID2)
go

```

```

/* =====
*/
/* Table: LINKS2 */
/* =====
*/

```

```

create table LINKS2
(
    LINKSID2              int          not null,
    MEMBERSID2            int          null ,
    URLINKS2              char(50)     null ,
    LOCALSUPPORTGROUPS2   char(50)     null ,
    LOCALEXERCISEGROUPS2  char(50)     null ,
    LINKSDEFINITION2      varchar(300) null ,
    constraint PK_LINKS2 primary key (LINKSID2)
)

```

```

)
go

/* =====
*/
/* Index: RELATION_4592_FK */
/* =====
*/
create index RELATION_4592_FK on LINKS2 (MEMBERSID2)
go

/* =====
*/
/* Table: PHYSIOTHERAPISTS2 */
/* =====
*/
create table PHYSIOTHERAPISTS2
(
    PHYSIOTHERAPISTID2      int          not null,
    CARERINFORMATIONID2     int          null ,
    PATIENTINFORMATIONID2   int          null ,
    EVIDENCEBASED_INFORMATION2 char(50)   null ,
    DISEASE_SIGNS_SYMPTOMS2 char(50)     null ,
    REHABILITATION_SERVICES2 char(50)     null ,
    PHYSIOTHERAPISTDEFINITION2 varchar(300) not null,
    constraint PK_PHYSIOTHERAPISTS2 primary key (PHYSIOTHERAPISTID2)
)
go

/* =====
*/
/* Index: RELATION_2682_FK */
/* =====
*/
create index RELATION_2682_FK on PHYSIOTHERAPISTS2
(CARERINFORMATIONID2, PATIENTINFORMATIONID2)
go

/* =====
*/
/* Table: AssessmentOutcome */
/* =====
*/
create table AssessmentOutcome
(
    ASSESSMENTOUTCOMEID2      int          not null,
    TIMINGID2                 int          not null,
    OUT_ASSESSMENTOUTCOMEID2  int          not null,
    OUTCOMESID2               int          not null,

```

```

        constraint PK_ASSESSMENTOUTCOME primary key
        (ASSESSMENTOUTCOMEID2, TIMINGID2, OUT_ASSESSMENTOUTCOMEID2,
        OUTCOMESID2)
    )
go

/* =====
*/
/* Index: RELATION_2012_FK2 */
/* =====
*/
create index RELATION_2012_FK2 on AssessmentOutcome
        (ASSESSMENTOUTCOMEID2, TIMINGID2)
go

/* =====
*/
/* Index: RELATION_2012_FK */
/* =====
*/
create index RELATION_2012_FK on AssessmentOutcome
        (OUT_ASSESSMENTOUTCOMEID2, OUTCOMESID2)
go

/* =====
*/
/* Table: Services_extint */
/* =====
*/
create table Services_extint
(
    SERVICESID          int          not null,
    INTERNALSERVICEID  int          not null,
    EXT_SERVICESID      int          not null,
    EXTERNALSERVICEID  int          not null,
    constraint PK_SERVICES_EXTINT primary key (SERVICESID,
        INTERNALSERVICEID, EXT_SERVICESID,
        EXTERNALSERVICEID)
)
go

/* =====
*/
/* Index: RELATION_44_FK2 */
/* =====
*/
create index RELATION_44_FK2 on Services_extint (SERVICESID,
        INTERNALSERVICEID)

```

```

go

/* =====
*/
/* Index: RELATION_44_FK */
/* =====
*/
create index RELATION_44_FK on Services_extint (EXT_SERVICESID,
EXTERNALSERVICEID)
go

alter table EXTERNALSERVICE
  add constraint FK_EXTERNAL_INHR_403_SERVICES foreign key
(SERVICESID)
  references SERVICES (SERVICESID)
go

alter table INTERNALSERVICE
  add constraint FK_INTERNAL_INHR_40_SERVICES foreign key (SERVICESID)
  references SERVICES (SERVICESID)
go

alter table TECHNIQUES2
  add constraint FK_TECHNIQU_RELATION__CARERS2 foreign key
(CARERSID2)
  references CARERS2 (CARERSID2)
go

alter table OUTCOMES2
  add constraint FK_OUTCOMES_INHR_1632_ASSESSME foreign key
(ASSESSMENTOUTCOMEID2)
  references ASSESSMENTOUTCOME2 (ASSESSMENTOUTCOMEID2)
go

alter table TIMING2
  add constraint FK_TIMING2_INHR_1632_ASSESSME foreign key
(ASSESSMENTOUTCOMEID2)
  references ASSESSMENTOUTCOME2 (ASSESSMENTOUTCOMEID2)
go

alter table CARERNEEDS2
  add constraint FK_CARERNEE_RELATION__CARERPAT foreign key
(CARERID2)
  references CARERPATIENTNEEDS2 (CARERID2)
go

alter table CARERNEEDS2
  add constraint FK_CARERNEE_RELATION__CARERNEE foreign key
(CAR_ASSESSMENTOUTCOMEID2, CAR_CARERNEEDSID2)
  references CARERNEEDS2 (ASSESSMENTOUTCOMEID2, CARERNEEDSID2)

```

go

alter table CARERNEEDS2

add constraint FK_CARERNEE_INHR_1632_ASSESSME foreign key
(ASSESSMENTOUTCOMEID2)
references ASSESSMENTOUTCOME2 (ASSESSMENTOUTCOMEID2)

go

alter table PATIENTINFORMATION2

add constraint FK_PATIENTI_INHR_2572_CARERINF foreign key
(CARERINFORMATIONID2)
references CARERINFORMATION2 (CARERINFORMATIONID2)

go

alter table CARERPATIENTNEEDS2

add constraint FK_CARERPAT_RELATION__CARERNEE foreign key
(ASSESSMENTOUTCOMEID2, CARERNEEDSID2)
references CARERNEEDS2 (ASSESSMENTOUTCOMEID2, CARERNEEDSID2)

go

alter table INDIVIDUALSERVICE

add constraint FK_INDIVIDU_INHR_402_SERVICES foreign key (SERVICESID)
references SERVICES (SERVICESID)

go

alter table OTHERTECHNIQUES2

add constraint FK_OTHERTEC_RELATION__OTHERTEC foreign key
(OTH_TECHNIQUESID2, OTH_OTHERTECHNIQUEID2)
references OTHERTECHNIQUES2 (TECHNIQUESID2,
OTHERTECHNIQUEID2)

go

alter table OTHERTECHNIQUES2

add constraint FK_OTHERTEC_INHR_1032_TECHNIQU foreign key
(TECHNIQUESID2)
references TECHNIQUES2 (TECHNIQUESID2)

go

alter table DECISIONMAKING2

add constraint FK_DECISION_INHR_1632_ASSESSME foreign key
(ASSESSMENTOUTCOMEID2)
references ASSESSMENTOUTCOME2 (ASSESSMENTOUTCOMEID2)

go

alter table ASSESSMENT2

add constraint FK_ASSESSME_RELATION__CARERNEE foreign key
(CAR_ASSESSMENTOUTCOMEID2, CARERNEEDSID2)
references CARERNEEDS2 (ASSESSMENTOUTCOMEID2, CARERNEEDSID2)

go

```

alter table ASSESSMENT2
  add constraint FK_ASSESSME_INHR_1632_ASSESSME foreign key
  (ASSESSMENTOUTCOMEID2)
  references ASSESSMENTOUTCOME2 (ASSESSMENTOUTCOMEID2)
go

alter table COMMUNICATION2
  add constraint FK_COMMUNIC_RELATION__MEMBERS2 foreign key
  (MEMBERSID2)
  references MEMBERS2 (MEMBERSID2)
go

alter table COMMUNICATION2
  add constraint FK_COMMUNIC_RELATION__TEAMAPPR foreign key
  (TEAMAPPROACHID2)
  references TEAMAPPROACH2 (TEAMAPPROACHID2)
go

alter table LINKS2
  add constraint FK_LINKS2_RELATION__MEMBERS2 foreign key
  (MEMBERSID2)
  references MEMBERS2 (MEMBERSID2)
go

alter table PHYSIOTHERAPISTS2
  add constraint FK_PHYSIOTH_RELATION__PATIENTI foreign key
  (CARERINFORMATIONID2, PATIENTINFORMATIONID2)
  references PATIENTINFORMATION2 (CARERINFORMATIONID2,
  PATIENTINFORMATIONID2)
go

alter table AssessmentOutcome
  add constraint FK_ASSESSME_RELATION__TIMING2 foreign key
  (ASSESSMENTOUTCOMEID2, TIMINGID2)
  references TIMING2 (ASSESSMENTOUTCOMEID2, TIMINGID2)
go

alter table AssessmentOutcome
  add constraint FK_ASSESSME_RELATION__OUTCOMES foreign key
  (OUT_ASSESSMENTOUTCOMEID2, OUTCOMESID2)
  references OUTCOMES2 (ASSESSMENTOUTCOMEID2, OUTCOMESID2)
go

alter table Services_extint
  add constraint FK_SERVICES_RELATION__INTERNAL foreign key
  (SERVICESID, INTERNALSERVICEID)
  references INTERNALSERVICE (SERVICESID, INTERNALSERVICEID)
go

alter table Services_extint

```

```
add constraint FK_SERVICES_RELATION__EXTERNAL foreign key
(EXT_SERVICESID, EXTERNALSERVICEID)
references EXTERNALSERVICE (SERVICESID, EXTERNALSERVICEID)
go
```

Database Queries

1. Total number of drugs

```
if exists (select name from sysobjects
          where name ='proc_totalnumberofdrugs' and type='P')
drop procedure proc_totalnumberofdrugs
create procedure proc_numberofdrugs
as
--
select a.email, count(b.nameofdrugs) as DrugsCount,b.numberofdrugs
from patient a
inner join drug_concordance b on a.patientid=b.patientid
group by a.email, b.nameofdrugs, b.numberofdrugs
having count(b.nameofdrugs)
order by a.email
```

2. Number of drugs missed

```
create procedure proc_numberofdrugs
as
--
select a.email, b.drugsmissed,b.numberofdrugs
from patient a
inner join drug_concordance b on a.patientid=b.patientid
group by a.email, b.drugsmissed, b.numberofdrugs
having count(b.drugsmissed)=1
order by a.email
```

3. Income level of patients

```

if exists (select name from sysobjects
          where name ='proc_income' and type='P')
drop procedure proc_income

create procedure proc_income
as
--
select income_level,
       select(min(income_level)from patient) as MinIncome,
       income_level - (select min(income_level)from patient) as MinIncomeDiff,
       select (avg(income_level) from patient) as AvgIncome,
       income_level - (select (avg(income_level) from patient) as AvgDiff
from patient
order by MinIncome

```

4. Deleting duplicate data

```

create procedure proc_duplicates
as

declare @myvalue varchar(50)
--define cursor

declare duplicates cursor for
       select email from patient group by email
       having count(0)>1 order by email asc

--open connection to cursor
Open duplicates

--fetch the first record

```


fetch next from duplicates into @myvalue

--check @@fetch_status to see if there are any more rows to fetch

while @@fetch_status =0

BEGIN

-- DELETE any extra duplicates in the table

/*

We find 1st VALUES id, THEN DELETE ALL duplicate

VALUES that do NOT have same ID

*/

DELETE FROM patient WHERE patientid IN(SELECT patientid

FROM patient WHERE email = @MyValue AND patientid NOT

IN(SELECT TOP 1 patientid FROM patient WHERE email =

@MyValue))

-- move TO next record

FETCH NEXT FROM Dupes INTO @MyValue

END

--closing the connection

close duplicates

--finally remove the cursor

deallocate duplicates

GO

5. Database backup

if exists (select name from sysobjects

where name ='proc_fullbackup' and type='P')

drop procedure proc_fullbackup

create procedure proc_fullbackup

as

```
SET QUOTED_IDENTIFIER off
```

```
select getdate() "Start Time"
```

```
set nocount on
```

```
declare @dbname varchar(100),@cmd varchar(100)
```

```
declare fullbackup cursor
```

```
    for
```

```
select db.name from master..sysdatabases db
```

```
where db.name != 'tempdb'
```

```
and db.name not in (select bs.database_name from msdb..backupset bs where type = 'd')
```

```
order by db.name
```

```
open fullbackup
```

```
fetch fullbackup into @dbname
```

```
while @@fetch_status = 0
```

```
begin
```

```
if DATABASEPROPERTYEX(@dbname,'Recovery') = 'FULL' and
```

```
DATABASEPROPERTYEX(@dbname,'Status') = 'ONLINE'
```

```
    begin
```

```
        select @cmd ='backup database '+@dbname+' to DISK="C:\Program  
Files\Microsoft SQL Server\MSSQL\backup\' + @dbname+'.bak" with init'
```

```
        print @cmd
```

```
        execute (@cmd)
```

```
    end
```

```
fetch dbname_cursor into @dbname
```

```
end
```

```
close fullbackup
```

```
deallocate fullbackup
```

```
select getdate() "End time"
```