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**OBJETIVO**

O Objetivo deste documento é solucionar o problema proposto no “DESAFIO CÉLULA FINANCEIRO E CONTROLADORIA”, contido no arquivo “DESAFIO\_MV\_FINAN\_CONT.pdf”. Para isto, o projeto deve ser em JAVA, utilizando o banco de dados ORACLE.

**README**

Sobre os softwares utilizados:

OracleXE184\_Win64;

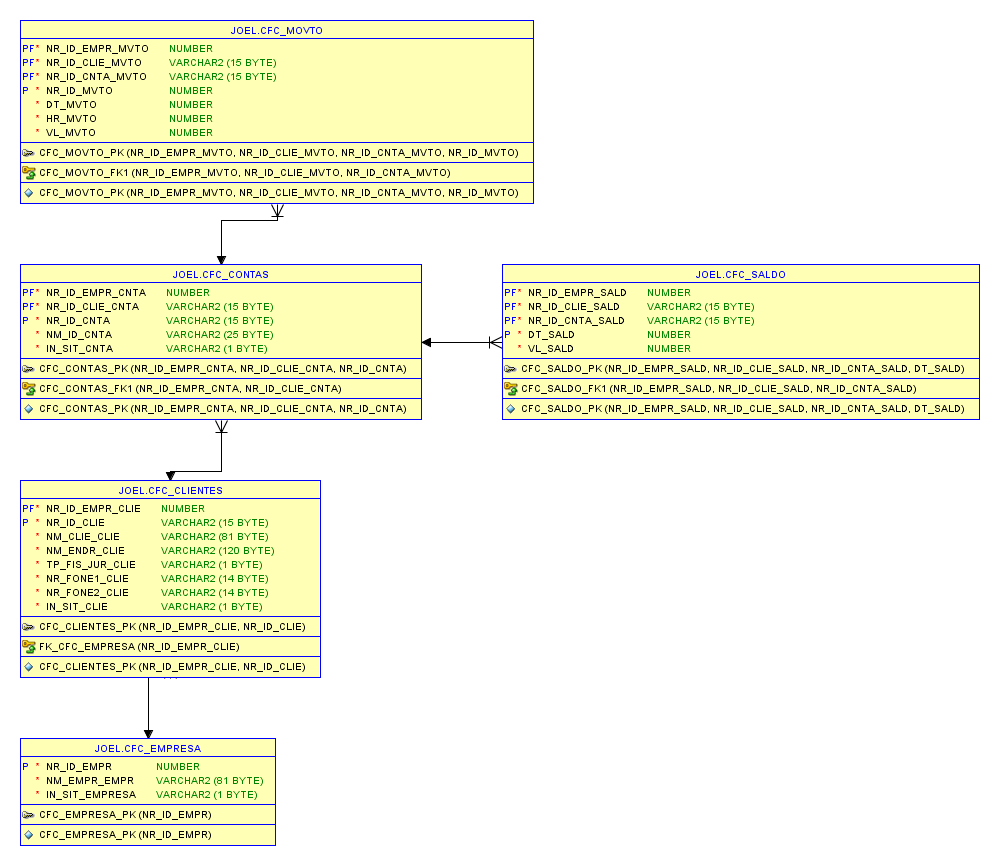
sqldeveloper-19.2.1.247.2212-x64;

Microsoft WORD/EXCEL 2002;

Sobre as tabelas:

1. Tabela de Empresa: Atende ao conceito de multicompanhia (multiempresas), permitindo que uma única estância do sistema atenda diversas empresas. Excelente para SAS ou ambientes para ensaios na própria produção;
2. Tabela de Clientes: Atende multiempresas. CPF e CNPJ compartilham o mesmo campo, sendo identificado pelo campo TP\_FIS\_JUR\_CLIE;
3. Tabela de Contas: Atende multiempresas. Incluído o campo NM\_ID\_CNTA , pois possibilita o usuário colocar um nome ou descrição para melhor identificar a conta;
4. Tabela de Movimento: Atende multiempresas. utilizado o conceito de data e hora ao invés de timestamp devido a possibilidade deste dado não ser de domínio do deste sistema;
5. Tabela de Saldo: Atende multiempresas. Contém o saldo fechado (de 30 em 30 dias). Sua função é gerar a informação do saldo anterior, nos extratos, de qualquer período de forma eficaz.

**MODELO ER DA SOLUÇÃO**



**DDL DA SOLUÇÃO**

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-- Arquivo criado - Domingo-Dezembro-06-2020

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-- DDL for Sequence CFC\_CONTAS\_SEQ

--------------------------------------------------------

CREATE SEQUENCE "JOEL"."CFC\_CONTAS\_SEQ" MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 21 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE GLOBAL ;

--------------------------------------------------------

-- DDL for Sequence CFC\_EMPRESA\_SEQ

--------------------------------------------------------

CREATE SEQUENCE "JOEL"."CFC\_EMPRESA\_SEQ" MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 21 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE GLOBAL ;

--------------------------------------------------------

-- DDL for Sequence CFC\_MOVTO\_SEQ

--------------------------------------------------------

CREATE SEQUENCE "JOEL"."CFC\_MOVTO\_SEQ" MINVALUE 1 MAXVALUE 9999999999999999999999999999 INCREMENT BY 1 START WITH 21 CACHE 20 NOORDER NOCYCLE NOKEEP NOSCALE GLOBAL ;

--------------------------------------------------------

-- DDL for Table CFC\_CLIENTES

--------------------------------------------------------

CREATE TABLE "JOEL"."CFC\_CLIENTES"

( "NR\_ID\_EMPR\_CLIE" NUMBER,

"NR\_ID\_CLIE" VARCHAR2(15 BYTE),

"NM\_CLIE\_CLIE" VARCHAR2(81 BYTE),

"NM\_ENDR\_CLIE" VARCHAR2(120 BYTE),

"TP\_FIS\_JUR\_CLIE" VARCHAR2(1 BYTE),

"NR\_FONE1\_CLIE" VARCHAR2(14 BYTE),

"NR\_FONE2\_CLIE" VARCHAR2(14 BYTE),

"IN\_SIT\_CLIE" VARCHAR2(1 BYTE)

) SEGMENT CREATION IMMEDIATE

PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255

NOCOMPRESS LOGGING

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

COMMENT ON COLUMN "JOEL"."CFC\_CLIENTES"."NR\_ID\_CLIE" IS 'CPF OU CNPJ';

COMMENT ON COLUMN "JOEL"."CFC\_CLIENTES"."TP\_FIS\_JUR\_CLIE" IS '(F) Física / (J) Jurídica';

COMMENT ON COLUMN "JOEL"."CFC\_CLIENTES"."IN\_SIT\_CLIE" IS '(A) ATIVO / (I) INATIVO';

COMMENT ON TABLE "JOEL"."CFC\_CLIENTES" IS 'Tabela de Clientes: Atende multicom. CPF e CNPJ compartilham o mesmo campo, sendo identificado pelo campo TP\_FIS\_JUR\_CLIE';

--------------------------------------------------------

-- DDL for Table CFC\_CONTAS

--------------------------------------------------------

CREATE TABLE "JOEL"."CFC\_CONTAS"

( "NR\_ID\_EMPR\_CNTA" NUMBER,

"NR\_ID\_CLIE\_CNTA" VARCHAR2(15 BYTE),

"NR\_ID\_CNTA" VARCHAR2(15 BYTE),

"NM\_ID\_CNTA" VARCHAR2(25 BYTE),

"IN\_SIT\_CNTA" VARCHAR2(1 BYTE)

) SEGMENT CREATION IMMEDIATE

PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255

NOCOMPRESS LOGGING

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

COMMENT ON COLUMN "JOEL"."CFC\_CONTAS"."NR\_ID\_CLIE\_CNTA" IS 'CPF OU CNPJ';

COMMENT ON COLUMN "JOEL"."CFC\_CONTAS"."NR\_ID\_CNTA" IS 'AUTO COUNTER';

COMMENT ON COLUMN "JOEL"."CFC\_CONTAS"."NM\_ID\_CNTA" IS 'NICKNAME';

COMMENT ON COLUMN "JOEL"."CFC\_CONTAS"."IN\_SIT\_CNTA" IS '(A) ATIVA / (I) INATIVA';

COMMENT ON TABLE "JOEL"."CFC\_CONTAS" IS 'Tabela de Contas: Incluído o campo NM\_ID\_CNTA , pois possibilita o usuário colocar um nome ou descrição para melhor identificar a conta.';

--------------------------------------------------------

-- DDL for Table CFC\_EMPRESA

--------------------------------------------------------

CREATE TABLE "JOEL"."CFC\_EMPRESA"

( "NR\_ID\_EMPR" NUMBER,

"NM\_EMPR\_EMPR" VARCHAR2(81 BYTE),

"IN\_SIT\_EMPRESA" VARCHAR2(1 BYTE)

) SEGMENT CREATION IMMEDIATE

PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255

NOCOMPRESS LOGGING

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

COMMENT ON COLUMN "JOEL"."CFC\_EMPRESA"."NR\_ID\_EMPR" IS 'AUTO COUNTER';

COMMENT ON COLUMN "JOEL"."CFC\_EMPRESA"."IN\_SIT\_EMPRESA" IS '(A) ATIVA / (I) INATIVA';

COMMENT ON TABLE "JOEL"."CFC\_EMPRESA" IS 'Tabela de Empresa: Atende ao conceito de multicompanhia, permitindo que uma única estância do sistema atenda diversas empresas. Excelente para SAS ou ambientes de ensaio na própria produção.';

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-- DDL for Table CFC\_MOVTO

--------------------------------------------------------

CREATE TABLE "JOEL"."CFC\_MOVTO"

( "NR\_ID\_EMPR\_MVTO" NUMBER,

"NR\_ID\_CLIE\_MVTO" VARCHAR2(15 BYTE),

"NR\_ID\_CNTA\_MVTO" VARCHAR2(15 BYTE),

"NR\_ID\_MVTO" NUMBER,

"DT\_MVTO" NUMBER,

"HR\_MVTO" NUMBER,

"VL\_MVTO" NUMBER

) SEGMENT CREATION IMMEDIATE

PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255

NOCOMPRESS LOGGING

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

COMMENT ON TABLE "JOEL"."CFC\_MOVTO" IS 'Tabela de Movimento: utilizado o conceito de data e hora ao invés de timestamp devido a possibilidade deste dado não ser de domínio do deste sistema.';

--------------------------------------------------------

-- DDL for Table CFC\_SALDO

--------------------------------------------------------

CREATE TABLE "JOEL"."CFC\_SALDO"

( "NR\_ID\_EMPR\_SALD" NUMBER,

"NR\_ID\_CLIE\_SALD" VARCHAR2(15 BYTE),

"NR\_ID\_CNTA\_SALD" VARCHAR2(15 BYTE),

"DT\_SALD" NUMBER,

"VL\_SALD" NUMBER

) SEGMENT CREATION IMMEDIATE

PCTFREE 10 PCTUSED 40 INITRANS 1 MAXTRANS 255

NOCOMPRESS LOGGING

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

COMMENT ON TABLE "JOEL"."CFC\_SALDO" IS 'Tabela de Saldo: Contém o saldo fechado (de 30 em 30 dias). Sua função é gerar a informação do saldo anterior, nos extratos, de qualquer período de forma eficaz.';

REM INSERTING into JOEL.CFC\_CLIENTES

SET DEFINE OFF;

Insert into JOEL.CFC\_CLIENTES (NR\_ID\_EMPR\_CLIE,NR\_ID\_CLIE,NM\_CLIE\_CLIE,NM\_ENDR\_CLIE,TP\_FIS\_JUR\_CLIE,NR\_FONE1\_CLIE,NR\_FONE2\_CLIE,IN\_SIT\_CLIE) values ('1','06994755894','JOEL','JUNDIAI','F','13981498085','13981498085','A');

REM INSERTING into JOEL.CFC\_CONTAS

SET DEFINE OFF;

Insert into JOEL.CFC\_CONTAS (NR\_ID\_EMPR\_CNTA,NR\_ID\_CLIE\_CNTA,NR\_ID\_CNTA,NM\_ID\_CNTA,IN\_SIT\_CNTA) values ('1','06994755894','1','CTA 1','A');

REM INSERTING into JOEL.CFC\_EMPRESA

SET DEFINE OFF;

Insert into JOEL.CFC\_EMPRESA (NR\_ID\_EMPR,NM\_EMPR\_EMPR,IN\_SIT\_EMPRESA) values ('1','XPTO','A');

REM INSERTING into JOEL.CFC\_MOVTO

SET DEFINE OFF;

Insert into JOEL.CFC\_MOVTO (NR\_ID\_EMPR\_MVTO,NR\_ID\_CLIE\_MVTO,NR\_ID\_CNTA\_MVTO,NR\_ID\_MVTO,DT\_MVTO,HR\_MVTO,VL\_MVTO) values ('1','06994755894','1','1','20200102','141516','300,01');

Insert into JOEL.CFC\_MOVTO (NR\_ID\_EMPR\_MVTO,NR\_ID\_CLIE\_MVTO,NR\_ID\_CNTA\_MVTO,NR\_ID\_MVTO,DT\_MVTO,HR\_MVTO,VL\_MVTO) values ('1','06994755894','1','2','20200201','111009','237,18');

REM INSERTING into JOEL.CFC\_SALDO

SET DEFINE OFF;

Insert into JOEL.CFC\_SALDO (NR\_ID\_EMPR\_SALD,NR\_ID\_CLIE\_SALD,NR\_ID\_CNTA\_SALD,DT\_SALD,VL\_SALD) values ('1','06994755894','1','20200131','300,01');

--------------------------------------------------------

-- DDL for Index CFC\_EMPRESA\_PK

--------------------------------------------------------

CREATE UNIQUE INDEX "JOEL"."CFC\_EMPRESA\_PK" ON "JOEL"."CFC\_EMPRESA" ("NR\_ID\_EMPR")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

--------------------------------------------------------

-- DDL for Index CFC\_MOVTO\_PK

--------------------------------------------------------

CREATE UNIQUE INDEX "JOEL"."CFC\_MOVTO\_PK" ON "JOEL"."CFC\_MOVTO" ("NR\_ID\_EMPR\_MVTO", "NR\_ID\_CLIE\_MVTO", "NR\_ID\_CNTA\_MVTO", "NR\_ID\_MVTO")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

--------------------------------------------------------

-- DDL for Index CFC\_CONTAS\_PK

--------------------------------------------------------

CREATE UNIQUE INDEX "JOEL"."CFC\_CONTAS\_PK" ON "JOEL"."CFC\_CONTAS" ("NR\_ID\_EMPR\_CNTA", "NR\_ID\_CLIE\_CNTA", "NR\_ID\_CNTA")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

--------------------------------------------------------

-- DDL for Index CFC\_SALDO\_PK

--------------------------------------------------------

CREATE UNIQUE INDEX "JOEL"."CFC\_SALDO\_PK" ON "JOEL"."CFC\_SALDO" ("NR\_ID\_EMPR\_SALD", "NR\_ID\_CLIE\_SALD", "NR\_ID\_CNTA\_SALD", "DT\_SALD")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

--------------------------------------------------------

-- DDL for Index CFC\_CLIENTES\_PK

--------------------------------------------------------

CREATE UNIQUE INDEX "JOEL"."CFC\_CLIENTES\_PK" ON "JOEL"."CFC\_CLIENTES" ("NR\_ID\_EMPR\_CLIE", "NR\_ID\_CLIE")

PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ;

--------------------------------------------------------

-- DDL for Trigger CFC\_CONTAS\_TRG

--------------------------------------------------------

CREATE OR REPLACE EDITIONABLE TRIGGER "JOEL"."CFC\_CONTAS\_TRG"

BEFORE INSERT ON CFC\_CONTAS

FOR EACH ROW

BEGIN

<<COLUMN\_SEQUENCES>>

BEGIN

IF INSERTING AND :NEW.NR\_ID\_CNTA IS NULL THEN

SELECT CFC\_CONTAS\_SEQ.NEXTVAL INTO :NEW.NR\_ID\_CNTA FROM SYS.DUAL;

END IF;

END COLUMN\_SEQUENCES;

END;

/

ALTER TRIGGER "JOEL"."CFC\_CONTAS\_TRG" ENABLE;

--------------------------------------------------------

-- DDL for Trigger CFC\_EMPRESA\_TRG

--------------------------------------------------------

CREATE OR REPLACE EDITIONABLE TRIGGER "JOEL"."CFC\_EMPRESA\_TRG"

BEFORE INSERT ON CFC\_EMPRESA

FOR EACH ROW

BEGIN

<<COLUMN\_SEQUENCES>>

BEGIN

IF INSERTING AND :NEW.NR\_ID\_EMPR IS NULL THEN

SELECT CFC\_EMPRESA\_SEQ.NEXTVAL INTO :NEW.NR\_ID\_EMPR FROM SYS.DUAL;

END IF;

END COLUMN\_SEQUENCES;

END;

/

ALTER TRIGGER "JOEL"."CFC\_EMPRESA\_TRG" ENABLE;

--------------------------------------------------------

-- DDL for Trigger CFC\_MOVTO\_TRG

--------------------------------------------------------

CREATE OR REPLACE EDITIONABLE TRIGGER "JOEL"."CFC\_MOVTO\_TRG"

BEFORE INSERT ON CFC\_MOVTO

FOR EACH ROW

BEGIN

<<COLUMN\_SEQUENCES>>

BEGIN

IF INSERTING AND :NEW.NR\_ID\_MVTO IS NULL THEN

SELECT CFC\_MOVTO\_SEQ.NEXTVAL INTO :NEW.NR\_ID\_MVTO FROM SYS.DUAL;

END IF;

END COLUMN\_SEQUENCES;

END;

/

ALTER TRIGGER "JOEL"."CFC\_MOVTO\_TRG" ENABLE;

--------------------------------------------------------

-- Constraints for Table CFC\_CONTAS

--------------------------------------------------------

ALTER TABLE "JOEL"."CFC\_CONTAS" MODIFY ("NR\_ID\_EMPR\_CNTA" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CONTAS" MODIFY ("NR\_ID\_CLIE\_CNTA" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CONTAS" MODIFY ("NR\_ID\_CNTA" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CONTAS" MODIFY ("NM\_ID\_CNTA" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CONTAS" MODIFY ("IN\_SIT\_CNTA" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CONTAS" ADD CONSTRAINT "CFC\_CONTAS\_PK" PRIMARY KEY ("NR\_ID\_EMPR\_CNTA", "NR\_ID\_CLIE\_CNTA", "NR\_ID\_CNTA")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ENABLE;

--------------------------------------------------------

-- Constraints for Table CFC\_EMPRESA

--------------------------------------------------------

ALTER TABLE "JOEL"."CFC\_EMPRESA" MODIFY ("NR\_ID\_EMPR" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_EMPRESA" ADD CONSTRAINT "CFC\_EMPRESA\_PK" PRIMARY KEY ("NR\_ID\_EMPR")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ENABLE;

ALTER TABLE "JOEL"."CFC\_EMPRESA" MODIFY ("NM\_EMPR\_EMPR" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_EMPRESA" MODIFY ("IN\_SIT\_EMPRESA" NOT NULL ENABLE);

--------------------------------------------------------

-- Constraints for Table CFC\_SALDO

--------------------------------------------------------

ALTER TABLE "JOEL"."CFC\_SALDO" MODIFY ("NR\_ID\_EMPR\_SALD" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_SALDO" MODIFY ("NR\_ID\_CLIE\_SALD" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_SALDO" MODIFY ("NR\_ID\_CNTA\_SALD" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_SALDO" MODIFY ("DT\_SALD" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_SALDO" MODIFY ("VL\_SALD" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_SALDO" ADD CONSTRAINT "CFC\_SALDO\_PK" PRIMARY KEY ("NR\_ID\_EMPR\_SALD", "NR\_ID\_CLIE\_SALD", "NR\_ID\_CNTA\_SALD", "DT\_SALD")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ENABLE;

--------------------------------------------------------

-- Constraints for Table CFC\_MOVTO

--------------------------------------------------------

ALTER TABLE "JOEL"."CFC\_MOVTO" MODIFY ("NR\_ID\_EMPR\_MVTO" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_MOVTO" MODIFY ("NR\_ID\_CLIE\_MVTO" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_MOVTO" MODIFY ("NR\_ID\_CNTA\_MVTO" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_MOVTO" MODIFY ("NR\_ID\_MVTO" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_MOVTO" MODIFY ("DT\_MVTO" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_MOVTO" MODIFY ("HR\_MVTO" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_MOVTO" MODIFY ("VL\_MVTO" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_MOVTO" ADD CONSTRAINT "CFC\_MOVTO\_PK" PRIMARY KEY ("NR\_ID\_EMPR\_MVTO", "NR\_ID\_CLIE\_MVTO", "NR\_ID\_CNTA\_MVTO", "NR\_ID\_MVTO")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ENABLE;

--------------------------------------------------------

-- Constraints for Table CFC\_CLIENTES

--------------------------------------------------------

ALTER TABLE "JOEL"."CFC\_CLIENTES" MODIFY ("NR\_ID\_EMPR\_CLIE" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CLIENTES" MODIFY ("NR\_ID\_CLIE" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CLIENTES" MODIFY ("NM\_CLIE\_CLIE" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CLIENTES" MODIFY ("NM\_ENDR\_CLIE" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CLIENTES" MODIFY ("TP\_FIS\_JUR\_CLIE" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CLIENTES" MODIFY ("NR\_FONE1\_CLIE" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CLIENTES" MODIFY ("NR\_FONE2\_CLIE" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CLIENTES" MODIFY ("IN\_SIT\_CLIE" NOT NULL ENABLE);

ALTER TABLE "JOEL"."CFC\_CLIENTES" ADD CONSTRAINT "CFC\_CLIENTES\_PK" PRIMARY KEY ("NR\_ID\_EMPR\_CLIE", "NR\_ID\_CLIE")

USING INDEX PCTFREE 10 INITRANS 2 MAXTRANS 255 COMPUTE STATISTICS

STORAGE(INITIAL 65536 NEXT 1048576 MINEXTENTS 1 MAXEXTENTS 2147483645

PCTINCREASE 0 FREELISTS 1 FREELIST GROUPS 1

BUFFER\_POOL DEFAULT FLASH\_CACHE DEFAULT CELL\_FLASH\_CACHE DEFAULT)

TABLESPACE "USERS" ENABLE;

--------------------------------------------------------

-- Ref Constraints for Table CFC\_CLIENTES

--------------------------------------------------------

ALTER TABLE "JOEL"."CFC\_CLIENTES" ADD CONSTRAINT "FK\_CFC\_EMPRESA" FOREIGN KEY ("NR\_ID\_EMPR\_CLIE")

REFERENCES "JOEL"."CFC\_EMPRESA" ("NR\_ID\_EMPR") ENABLE;

--------------------------------------------------------

-- Ref Constraints for Table CFC\_CONTAS

--------------------------------------------------------

ALTER TABLE "JOEL"."CFC\_CONTAS" ADD CONSTRAINT "CFC\_CONTAS\_FK1" FOREIGN KEY ("NR\_ID\_EMPR\_CNTA", "NR\_ID\_CLIE\_CNTA")

REFERENCES "JOEL"."CFC\_CLIENTES" ("NR\_ID\_EMPR\_CLIE", "NR\_ID\_CLIE") ENABLE;

--------------------------------------------------------

-- Ref Constraints for Table CFC\_MOVTO

--------------------------------------------------------

ALTER TABLE "JOEL"."CFC\_MOVTO" ADD CONSTRAINT "CFC\_MOVTO\_FK1" FOREIGN KEY ("NR\_ID\_EMPR\_MVTO", "NR\_ID\_CLIE\_MVTO", "NR\_ID\_CNTA\_MVTO")

REFERENCES "JOEL"."CFC\_CONTAS" ("NR\_ID\_EMPR\_CNTA", "NR\_ID\_CLIE\_CNTA", "NR\_ID\_CNTA") ENABLE;

--------------------------------------------------------

-- Ref Constraints for Table CFC\_SALDO

--------------------------------------------------------

ALTER TABLE "JOEL"."CFC\_SALDO" ADD CONSTRAINT "CFC\_SALDO\_FK1" FOREIGN KEY ("NR\_ID\_EMPR\_SALD", "NR\_ID\_CLIE\_SALD", "NR\_ID\_CNTA\_SALD")

REFERENCES "JOEL"."CFC\_CONTAS" ("NR\_ID\_EMPR\_CNTA", "NR\_ID\_CLIE\_CNTA", "NR\_ID\_CNTA") ENABLE;