Parcial 1 Bases de datos 2

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Bases de datos 2

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26 de marzo
2023

Se creó el TableSpace con este código:

```
"CREATE SMALLFILE TABLESPACE NIJU
   DATAFILE
      '/opt/oracle/movies/SPECIFICATION' SIZE 2147483648
   BLOCKSIZE 8192
   DEFAULT NOCOMPRESS
   ONLINE
   SEGMENT SPACE MANAGEMENT AUTO
   EXTENT MANAGEMENT LOCAL AUTOALLOCATE;
"
```

Luego se creó el usuario:
```
"-- USER SQL
CREATE USER "NIJU" IDENTIFIED BY "NIJU321"
DEFAULT TABLESPACE "NIJU";

-- ROLES
GRANT "CONNECT" TO "NIJU" ;
GRANT "RESOURCE" TO "NIJU" ;
"
```

Luego se generó la importación de las tablas con sus respectivos registros a través de la herramienta SQL Loader, Después de esto se genera la relación de las tablas con este script :
```
"ALTER TABLE MOVIES
ADD CONSTRAINT PK_MOVIES PRIMARY KEY (MOVIE_ID);

ALTER TABLE LINKS
ADD CONSTRAINT FK_LINKS FOREIGN KEY (MOVIE_ID)
REFERENCES  MOVIES (MOVIE_ID);

ALTER TABLE RATINGS
ADD CONSTRAINT FK_RATINGS_MOVIES FOREIGN KEY (MOVIE_ID)
REFERENCES  MOVIES (MOVIE_ID);

ALTER TABLE TAGS
ADD CONSTRAINT FK_TAGS_MOVIES FOREIGN KEY (MOVIE_ID)
REFERENCES  MOVIES (MOVIE_ID);

ALTER TABLE GENOME_TAGS
ADD CONSTRAINT PK_GENOME_TAGS PRIMARY KEY (TAG_ID);

ALTER TABLE GENOME_SCORES
ADD CONSTRAINT FK_GENOME_SCORES_MOVIES FOREIGN KEY (MOVIE_ID)
REFERENCES  MOVIES (MOVIE_ID);

ALTER TABLE GENOME_SCORES
```

ADD CONSTRAINT FK_GENOME_SCORES_GENOME_TAGS FOREIGN KEY (TAG_ID)
REFERENCES GENOME_TAGS (TAG_ID);
"

Con las relaciones ya generadas se generó el archivo DDL:

```
"-- Generado por Oracle SQL Developer Data Modeler 19.1.0.081.0911
--  en:       2023-03-26 10:34:47 COT
--  sitio:     Oracle Database 11g
--  tipo:      Oracle Database 11g



CREATE TABLESPACE niju
--  WARNING: Tablespace has no data files defined
 LOGGING ONLINE EXTENT MANAGEMENT LOCAL AUTOALLOCATE FLASHBACK ON;

CREATE user niju identified by account unlock
;

CREATE TABLE niju.genome_scores (
    movie_id    NUMBER(38),
    tag_id      NUMBER(38),
    relevance   FLOAT(126)
)
PCTFREE 10 PCTUSED 40 TABLESPACE niju LOGGING
    STORAGE ( PCTINCREASE 0 MINEXTENTS 1 MAXEXTENTS UNLIMITED FREELISTS
1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT );

CREATE TABLE niju.genome_tags (
    tag_id      NUMBER(38),
    tag   VARCHAR2(256 BYTE),
)
PCTFREE 10 PCTUSED 40 TABLESPACE niju LOGGING
    STORAGE ( PCTINCREASE 0 MINEXTENTS 1 MAXEXTENTS UNLIMITED FREELISTS
1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT );



CREATE TABLE niju.links (
    movie_id   NUMBER(38),
    imdb_id    NUMBER(38),
    tmdb_id    NUMBER(38)
)
PCTFREE 10 PCTUSED 40 TABLESPACE niju LOGGING
    STORAGE ( PCTINCREASE 0 MINEXTENTS 1 MAXEXTENTS UNLIMITED FREELISTS
1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT );

CREATE TABLE niju.movies (
    movie_id   NUMBER(38) NOT NULL,
```

```
    title      VARCHAR2(256 BYTE),
    genres     VARCHAR2(256 BYTE)
)
PCTFREE 10 PCTUSED 40 TABLESPACE niju LOGGING
    STORAGE ( PCTINCREASE 0 MINEXTENTS 1 MAXEXTENTS UNLIMITED FREELISTS
1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT );

CREATE UNIQUE INDEX niju.pk_movies ON
    niju.movies (
        movie_id
    ASC )
        TABLESPACE niju PCTFREE 10
            STORAGE ( PCTINCREASE 0 MINEXTENTS 1 MAXEXTENTS UNLIMITED
FREELISTS 1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT )
        LOGGING;

ALTER TABLE niju.movies
    ADD CONSTRAINT pk_movies PRIMARY KEY ( movie_id )
        USING INDEX niju.pk_movies;

CREATE TABLE niju.ratings (
    user_id    NUMBER(38),
    movie_id   NUMBER(38),
    rating     FLOAT(126),
    datetime   TIMESTAMP
)
PCTFREE 10 PCTUSED 40 TABLESPACE niju LOGGING
    STORAGE ( PCTINCREASE 0 MINEXTENTS 1 MAXEXTENTS UNLIMITED FREELISTS
1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT );

CREATE TABLE niju.tags (
    user_id    NUMBER(38),
    movie_id   NUMBER(38),
    tag        VARCHAR2(128 BYTE),
    datetime   TIMESTAMP
)
PCTFREE 10 PCTUSED 40 TABLESPACE niju LOGGING
    STORAGE ( PCTINCREASE 0 MINEXTENTS 1 MAXEXTENTS UNLIMITED FREELISTS
1 FREELIST GROUPS 1 BUFFER_POOL DEFAULT );

ALTER TABLE niju.genome_scores
    ADD CONSTRAINT fk_genome_scores_genome_tags FOREIGN KEY ( tag_id )
        REFERENCES niju.genome_tags ( tag_id )
    NOT DEFERRABLE;

ALTER TABLE niju.genome_scores
    ADD CONSTRAINT fk_genome_scores_movies FOREIGN KEY ( movie_id )
        REFERENCES niju.movies ( movie_id )
```

```
    NOT DEFERRABLE;

ALTER TABLE niju.links
    ADD CONSTRAINT fk_links FOREIGN KEY ( movie_id )
        REFERENCES niju.movies ( movie_id )
    NOT DEFERRABLE;

ALTER TABLE niju.ratings
    ADD CONSTRAINT fk_ratings_movies FOREIGN KEY ( movie_id )
        REFERENCES niju.movies ( movie_id )
    NOT DEFERRABLE;

ALTER TABLE niju.tags
    ADD CONSTRAINT fk_tags_movies FOREIGN KEY ( movie_id )
        REFERENCES niju.movies ( movie_id )
    NOT DEFERRABLE;



-- Informe de Resumen de Oracle SQL Developer Data Modeler:
--
-- CREATE TABLE                      6
-- CREATE INDEX                      1
-- ALTER TABLE                       7
-- CREATE VIEW                       0
-- ALTER VIEW                        0
-- CREATE PACKAGE                    0
-- CREATE PACKAGE BODY               0
-- CREATE PROCEDURE                  0
-- CREATE FUNCTION                   0
-- CREATE TRIGGER                    0
-- ALTER TRIGGER                     0
-- CREATE COLLECTION TYPE            0
-- CREATE STRUCTURED TYPE            0
-- CREATE STRUCTURED TYPE BODY       0
-- CREATE CLUSTER                    0
-- CREATE CONTEXT                    0
-- CREATE DATABASE                   0
-- CREATE DIMENSION                  0
-- CREATE DIRECTORY                  0
-- CREATE DISK GROUP                 0
-- CREATE ROLE                       0
-- CREATE ROLLBACK SEGMENT           0
-- CREATE SEQUENCE                   0
-- CREATE MATERIALIZED VIEW          0
-- CREATE MATERIALIZED VIEW LOG      0
-- CREATE SYNONYM                    0
-- CREATE TABLESPACE                 1
```
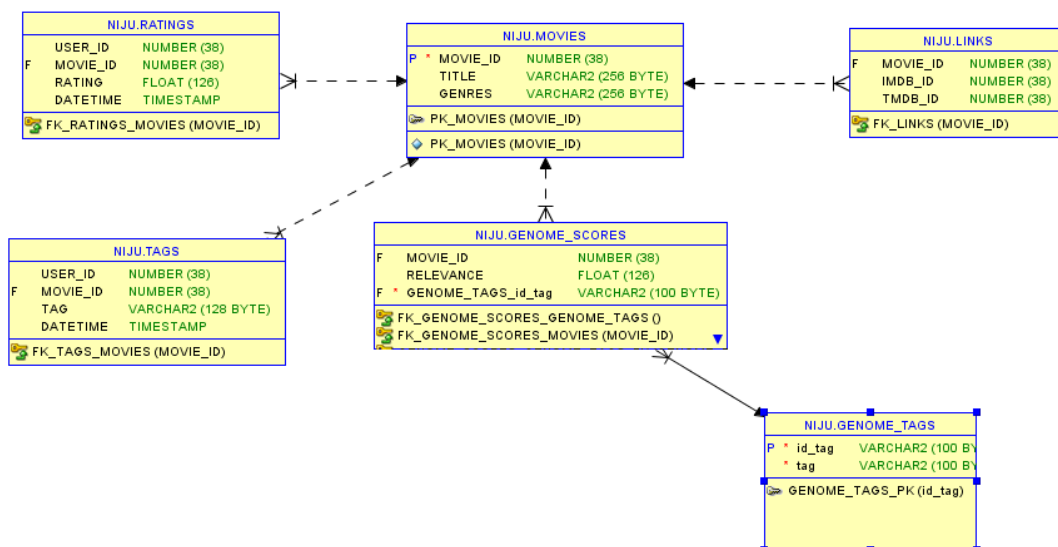
```
-- CREATE USER                      1
--
-- DROP TABLESPACE                 0
-- DROP DATABASE                   0
--
-- REDACTION POLICY               0
--
-- ORDS DROP SCHEMA               0
-- ORDS ENABLE SCHEMA             0
-- ORDS ENABLE OBJECT             0
--
-- ERRORS                         0
-- WARNINGS
"
```

El cual nos generó este diseño de relaciones:

Tener en cuenta que la salida de cada script está con el nombre del punto con la extensión txt ej:(NIJU_punto1.txt)