

non

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1 Introduction

We are given a statement with the requirements for a new Database we need to design and create for a company.

First of all, we will create a relational design that satisfies as best as possible with the demands of the company. At the same time, we will annotate the implicit semantics we have made in order to create our graph, as well as the non-observed explicit semantics that we will try to cover later on in the implementation.

After that, we will create all the tables of the design in Oracle SQL (creation.sql script). Thanks to the use of constraints, we will be able to cover some of the previously non-observed explicit semantics, noted in the re-incorporated semantics table.

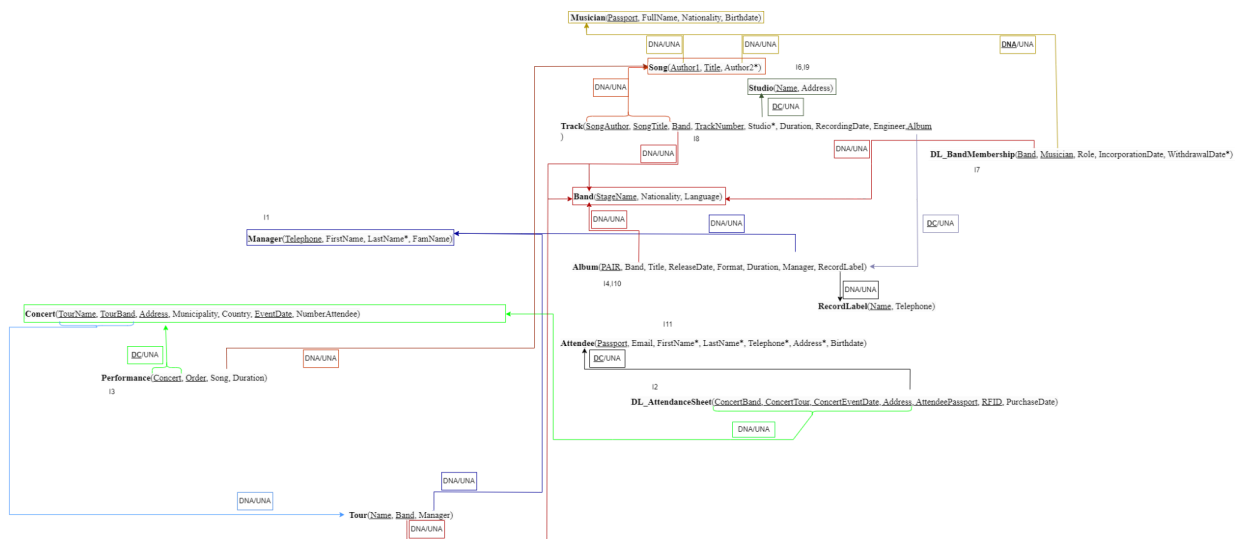
After populating the tables with the data given by the company (upload.sql script), some new implicit semantics will be added.

Lastly, we will state the final excluded semantics, and comment on the problems we detected when populating our tables.

2 Relational Design

This section is subdivided into three subsections:

- Relational Schema: the complete design (despite the restrictions of Oracle SQL).



Language and Nationality (check they are valid) are separate entities: they have repeated values

Concerts can have no performances (0..n)

check age by trigger

deliver only report.pdf for second delivery (design for queries and views (relational algebra), trigger (characteristics), sql (no screenshot -> 0 point, use txt), testing (use different states of database(insert/delete/update), predict result of new state, verify the program gives the same result. If the test shows no mistake -> test fails, if not, test succeeds, we need to explain) Just one or two good tests. Not exhaustive. Just show that we can design good testings.

test the trigger. mutating table error occurs when we are taking more than 1 row. We should do test with more than 1 rows.

40% sql code 30% design / 30% test

- **Implicit semantics:** semantic presuppositions that are not found in the explicit description, but which are required to complete the relational design.

Presp_i d	Stage	Mechanis m	Description
I ₁	Design	Primary key	It is assumed that a manager only has one telephone (this telephone is unique).
I ₂	Design	Primary key	It is assumed that an attendee can have more than one ticket.
I ₃	Design	Primary key	It is assumed that the same performance can be done twice in the same concert.
I ₄	Design	Primary key	It is assumed that an album that is rereleased with a different format has a different PAIR.

I ₅	Design	Integrity Choice	We use DNA/UNA as integrity choices when it is no specified
I ₆	Design	Primary key	Two studios with different addresses with the same name are the same studio.
I ₇	Design	Primary key	It is assumed that a musician can only have one role.
I ₈	Design	Primary key	It is assumed that there are tracks of the same song, band and number but in different albums.
I ₉	Design	Foreign Key	It is assumed that if we add studio to a track, we add both the name and the address.
I ₁₀	Design	Primary key	When refounded, a different PAIR number is given.
I ₁₁	Design	Not null	The birthdate of an attendee is compulsory.

Table 1: Implicit semantics incorporated into the relational graph

- Non-observed explicit semantics: each of the explicit presuppositions (stated in the problem description) that could not be included in the relational graph, will be identified (with a label, such as S₁, S₂, ...) and described in this section.

Presp_id	Description
S ₁	In the relation Album, the attribute format should be Vinyl, Single, CD, MP3, Audio File or Streaming.
S ₂	The duration of a track should be less than 90 mins (5400 seconds)
S ₃	The total duration of an album is the sum of duration of the tracks
S ₄	There could be two rows that will be stored where authors are repeated. Example: Song('Love', <u>'Maria'</u> , 'Diego') and Song('Love', <u>'Diego'</u> , 'María')
S ₅	Concerts cannot be deleted when ticket sales have already been recorded for them.
S ₆	The date/time of the event must be after the purchase date, and 18 years after the client's date of birth
S ₇	A record label won't be removed from the database whenever there exists any album released under it.

Table 2: Non-observed explicit semantics

3 Relational Statics Implementation in SQL (DDL)

This section must include the creation of each table. In addition to the code (NEWcreation.sql script) for creating tables (valid syntax in PL/SQL), you should include the correspondent subsections referring to the excluded semantics that are re-incorporated, the newly incorporated

implicit semantics, and the explicit semantics that were observed but are now excluded. All these sections will be accomplishing by fulfilling the correspondent table (see tables 3, 4 and 5). Any of these tables is empty (in case), the table should be omitted and replaced by a phrase such as "Has not been reported."

Re-incorporated semantics: (identifiers referred to those assigned in table 1)

Presp_id	Solution Description
S ₁	Format should be Vinyl, Single, CD, MP3, Audio File or Streaming; a constraint chk_Album_Format CHECK (Format IN ('Vinyl', 'Single', 'CD', 'MP3', 'Audio File', 'Streaming')) is added to the table Album.
S ₂	Duration of a track should be at most 90 min; constraint check_Track_Duration CHECK(Duration <= 5400) is added to table track (since the input is given in seconds and 5400 seconds are 90 mins).

Table 3: re-incorporated explicit semantics

Incorporated implicit semantics: (numbering continues where ended in table 2)

Presp_id	Stage	Mechanism	Description
I ₁₂	Implem	Check	If a band has no start_date, it will be set to today (after checking, no import had start_date to Null and end_date, which would make this semantic wrong)
I ₁₃	Implem	Check	It is assumed that the introduced data for Author in fsdb.recordings is, at maximum, 14 characters, like the Passport of an artist.
I ₁₄	Implem	Check	The Last Name of Manager is optional.
I ₁₅	Implem	Check	The Stage Name of a Band is equal to the Name of the Musician in case this Band is a Soloist.
I ₁₆	Implem	Check	It is assumed that the datatype VARCHAR2(10) of Birthdate in Musician can be converted into DATE

Table 1(cont.): implicit semantics incorporated in the definition of each table

Excluded semantics:

Presp_id	Description	Cause	Explicit/Implicit
E ₁	The date/time of the event must be 18 years after the client's date of birth	We consider this could be checked with a trigger later on.	Explicit
E ₂	A record label won't be removed from the database whenever there exists any album released under it.	No Implementable	Explicit

E ₃	Concerts cannot be deleted when ticket sales have already been recorded for them.	No implementable	Explicit
E ₄	There could be two rows that will be stored where authors are repeated. Example: Song('Love', 'Maria', 'Diego') and Song('Love', 'Diego', 'María')	No implementable	Explicit

Table 5: explicit semantics excluded in the creation of each table

4 Workload (DML)

This section will describe the uploading of the workload (*NEWload.sql* script) from the tables provided (and described in the statement). To this end, we will analyze the problem of populating the tables with the workload. The solution will be described, with emphasis on:

- The specific order of tables to dump data into them (reasoned).
- The problems that arise (obligatory field value, inconsistencies in the original data, etc...) and the solutions adopted to overcome them.

We are going to study each problem found in the order of creation of our tables. This order is fundamental, as some tables point to other ones via foreign keys, so those that are pointed to must be created first. Taking into account our own order:

1. In Musician, we found a **problem**: when we were trying to insert the values, we found an error of 'unique constraint violated'. We localized the problem and realized it is due to duplicate rows, which is solved by simply adding 'distinct' after 'SELECT'. There were 75 repeated rows and 0 rows with null values, which means that only **1649** distinct and not null-valued (non-optional) rows were inserted (out of a total of 1724).

```
SQL> INSERT INTO MUSICIAN A (A.Passport, A.FullName, A.Nationality, A.BirthDate) SELECT B.PASSPORT, B.MUSICIAN, B.NATIONALITY, to_date(B.BIRTHDATE, 'DD-MM-YYYY') FROM fsdb.artists B;
INSERT INTO MUSICIAN A (A.Passport, A.FullName, A.Nationality, A.BirthDate) SELECT B.PASSPORT, B.MUSICIAN, B.NATIONALITY, to_date(B.BIRTHDATE, 'DD-MM-YYYY') FROM fsdb.artists B
*
ERROR en línea 1:
ORA-00001: restriccion unica (FSDB253.PK_MUSICIAN) violada
SQL> _
```

```

PASSPORT      MUSICIAN      NATIONALITY      TO_DATE(
-----
SE>>0049110567 Fulano Lopez      Swede      31/12/39
SE>>0245458128 Lluç Delgado      Swede      26/03/41
SE>>0960039754 Venci      Swede      05/01/42
SE>>0786843588 Francisca Leonila Infante      Swede      10/07/35
SE>>0636333994 Ofely      Swede      20/05/35
SE>>0288540365 Maria Geraldina Inga-Menacho      Swede      04/11/32
SE>>0733396044 Elesci      Swede      19/01/42
SE>>0468827810 Prudencia      Swede      22/11/33
SE>>0333836387 Prosi      Swede      21/10/37
SE>>0063274453 Pastor Marroquin      Swede      01/02/32

1649 filas seleccionadas.

SQL> _

```

2. In Band, we found a **problem**: there was a row with all of its attributes NULL (BAND, BAND_NATION, BAND_LANGUAGE) taking null values. However, it was solved by using 'is not null' for band (we found that whenever band is not null the rest of the attributes are not null also). Regarding repeated rows, there were **695** distinct and not null-valued (non-optional) rows inserted (out of a total of 1724).

```

SQL> SELECT distinct BAND, BAND_NATION, BAND_LANGUAGE FROM fsdb.artists WHERE BAND is NULL;

BAND      BAND_NATION      BAND_LANGUAGE
-----
SQL> _

BAND      BAND_NATION      BAND_LANGUAGE
-----
Rosa Bartola Gomez      Portuguese      English
Beltran      British      English

695 filas seleccionadas.

SQL> _

```

3. In DL_BandMembership, we found a **problem**: a row that contained a null START_DATE. It was solved by replacing that null date by SYSDATE, which was not a contradiction with END_DATE, as this row had no END_DATE either. Regarding repeated rows, there were **1224** distinct and not null-valued (non-optional) rows inserted.

```

SQL> INSERT INTO DL_BANDMEMBERSHIP (Band, Musician, Role, IncorporationDate, WithdrawalDate) SELECT distinct B.band, B.passport, B.role, to_date(B.start_date, 'DD-MM-YYYY'), to_date(B.end_date, 'DD-MM-YYYY') FROM fsdb.artists B WHERE B.band IS NOT NULL;
INSERT INTO DL_BANDMEMBERSHIP (Band, Musician, Role, IncorporationDate, WithdrawalDate) SELECT distinct B.band, B.passport, B.role, to_date(B.start_date, 'DD-MM-YYYY'), to_date(B.end_date, 'DD-MM-YYYY') FROM fsdb.artists B WHERE B.band IS NOT NULL

*
ERROR en línea 1:
ORA-01400: no se puede realizar una insercion NULL en
("FSDB253"."DL_BANDMEMBERSHIP"."INCORPORATIONDATE")

```

```
SQL> SELECT band,start_date,end_date from fsdb.artists where Band is not null and start_date is Null;
```

```
BAND                                START_DATE  END_DATE
-----
Cunegunda
```

```
BAND                                PASSPORT    NVL(B.ROLE,'SOL NVL(TO_D TO_DATE(
-----
The Speedy Gamo Band                IS>>0434280633 Percussion    04/07/64 28/09/64
Chapela Cal?                        US>>0638315635 Percussion    02/11/80 24/07/84
Recuerdos de Ayer                   FR>>0362826477 Percussion    11/05/14 28/01/18

1224 filas seleccionadas.

SQL> _
```

4.In Song, we found **no problems**. Regarding repeated rows, there were **123698** distinct and not null-valued (non-optional) rows inserted.

```
WRITER                                SONG                                COWRITER
-----
SE>>0811312298                       Wise and dreamer
SE>>0206964155                       Jewels
SE>>0973902484                       Devil of shining

123698 filas seleccionadas.

SQL> _
```

5.In Studio, we found **no problems**, no Studio nor Address were null. Regarding repeated rows, there were **40** distinct and not null-valued (non-optional) rows inserted.

```
STUDIO                                STUD_ADDRESS
-----
Estudios Casita                      Street Quevedo, N 140, AS-65865, American Samoa
Walnut Tree Recordings              Street Walnut Tree, N 46, PL-14344, Poland
Manazas Studios                     Walk Shepherds, N 45, SM-59321, San Marino
Crowdy Studios                      Slope Crowdy, N 51, ES-76270, Spain
Estudios de Grabaci?n Teodora Livia Street Saint Eulalia, N 140, CR-67333, Costa Rica
Estudios de Grabaci?n Rosa Eva      Lane Linen, N 78, SR-68338, Suriname
Remuzgo Guzman Inc.                 Avenue Perez-Reverte, N 69, TT-70142, Trinidad and Tobago

40 filas seleccionadas.

SQL> _
```

6.In Manager, we found some **problems** related to many managers not having a surname. Our solution involved making this attribute optional. Regarding repeated rows, there were **126** distinct and not null-valued (non-optional) rows inserted.

```
SQL> SELECT distinct to_number(MAN_MOBILE), MANAGER_NAME, MAN_SURNAME, MAN_FAM_NAME FROM fsdb.recordings WHERE MAN_SURNAME IS NULL;

TO_NUMBER(MAN_MOBILE) MANAGER_NAME    MAN_SURNAME    MAN_FAM_NAME
-----
555779088 Jose                      Moreira
555953252 Dulce                      Gomez
555757894 Mariluz                    Diaz
555645760 Armando                    Laverio
```



```

555095405 Esteban Enrique
555440180 Grazia
555376897 Alejandra
555428819 Eva Ovidia
Gomez
Galdos
Estrella
Bernal

TO_NUMBER(MAN_MOBILE) MANAGER_NAME MAN_SURNAME MAN_FAM_NAME
-----
555186120 Maria Jose Vazquez
555792433 Marilia Palacin
555163184 Maria de las Aguas Vivas "Tijeras" Jimenez
555754076 Maria del Henar Sanz
555336234 Editta Carrillo
555855423 Jillian Latorre
555602670 Antonio Fernando Bernedo
555097557 Desiderio "Mari" Maranon
555848458 Olimpico Ortega
555541405 Ramses Sanchez-Laque
555352222 Antonio "Antonio Angulo" Angulo

```

44 filas seleccionadas.

SQL> _

```

TO_NUMBER(MAN_MOBILE) MANAGER_NAME MAN_SURNAME MAN_FAM_NAME
-----
555671107 Urbano Cubo Canari
555399004 Silvia Feodora Rincon Rimachi
555803402 Petra Patricia Pomez Galarza
555138583 Candidiano Garcia Bueno
555421035 Cesarea Marquina Parco

```

126 filas seleccionadas.

SQL> _

7. In RecordLabel, we found **no problems**. Regarding repeated rows, there were **30** distinct and not null-valued (non-optional) rows inserted.

```

PUBLISHER TO_NUMBER(PUB_PHONE)
-----
G?alter Music 555908230
United Vinyls 555196939
Armaggedom Rec. 555123881
Omega Recordings 555908774
Fuerteventura Inc. 555180191
SilkRecord 555368650
JJJ 555155764
Hispano Vos 555838851

30 filas seleccionadas.

SQL> _

```

8. In Album, we found **no problems**. Regarding repeated rows, there were **21561** distinct and not null-valued (non-optional) rows inserted.


```
ALBUM_PAIR PERFORMER TO_NUMBER(MAN_MOBILE) PUBLISHER ALBUM_TITLE TO_DATE( FORMAT TO_NUMBER(ALBUM_LENGTH)
-----
0444JDX935695D The Great Pretending Modesty 555885969 Monz2n Distancia gravedad 01/05/84 Single 330
21561 filas seleccionadas.
SQL> _
```

9.In Track, we found **no problems**. Regarding repeated rows, there were **146278** distinct and not null-valued (non-optional) rows inserted.

```
SONG WRITER PERFORMER TRACKNUM STUDIO TO_NUMBER(DURATION) TO
-----
Pluth de t. M. T. ES>0232201105 Roqui 12 Nakana Hernandez-Llorente Recordings 394 88
Carnations bandit GB>0232201710 Beltran 10 Estudios Madonna Lily 210 27
Tunnel in the steppe SE>0787845940 Begga Ruiz 1 Escriba Ruiz Studios 186 10
Puzzle US>0407610410 Francis Farro 5 Durado Studios 104 32
Gurreino o sauces ES>0232204105 Roqui 1 Estudios de Grabaci?n Orni 349 23
Anapolas o soul SE>0659888141 Babito 7 Escriba Ruiz Studios 155 11
Camino nadie SE>0432425243 Cantadores 4 Lonely Recordings 351 88
Amigo o toros SE>0581486851 Cantadores 4 Estudios de Grabaci?n Our Lady of the Sanctuary 340 23
Feeling SE>0632857815 Clasico 4 Estudios de Grabaci?n Our Lady of the Sanctuary 255 24
equivocado y enamorado SE>0327304590 Bezzabikoff Ampuero 13 Actress Recordings 22 11
Landscape or sensation SE>0269858646 Clemente Sanchez 2 Estudios de Grabaci?n Marino 176 20
146278 filas seleccionadas.
SQL> _
```

10.In Tour, we found **some problems**. There were some null values in Tour, and a Manager whose Phone was null, also had a null value in Tour, so we avoided it ('555097555', 'The '88 Dude Tour'). Regarding repeated rows, there were **5331** distinct and not null-valued (non-optional) rows inserted.

```
SQL> INSERT INTO Tour (Manager, Name, Band) SELECT distinct to_number(A.MAN_MOBILE), A.TOUR, A.PERFORMER FROM fsdb.livesingings A;
INSERT INTO Tour (Manager, Name, Band) SELECT distinct to_number(A.MAN_MOBILE), A.TOUR, A.PERFORMER FROM fsdb.livesingings A
*
ERROR en línea 1:
ORA-01400: no se puede realizar una insercion NULL en ("FSDB253"."TOUR"."NAME")
```

```
SQL> INSERT INTO Tour (Manager, Name, Band) SELECT distinct to_number(A.MAN_MOBILE), A.TOUR, A.PERFORMER FROM fsdb.livesingings A where
INSERT INTO Tour (Manager, Name, Band) SELECT distinct to_number(A.MAN_MOBILE), A.TOUR, A.PERFORMER FROM fsdb.livesingings A where A.T
*
ERROR en línea 1:
ORA-02291: restricción de integridad (FSDB253.FK_TOUR_MANAGER) violada - clave principal no encontrada
```

```
SQL> SELECT DISTINCT TO_NUMBER(A.MAN_MOBILE), A.TOUR
2 FROM fsdb.livesingings A
3 WHERE A.TOUR IS NOT NULL
4 AND A.MAN_MOBILE NOT IN (SELECT DISTINCT Telephone FROM Manager);

TO_NUMBER(A.MAN_MOBILE) TOUR
-----
555097555 The '88 Dude Tour
```

```
TO_NUMBER(A.MAN_MOBILE) TOUR PERFORMER
-----
555779080 The '95 Tasy Tour Tasy
555759588 La of like '87 Telemaco Sanchez
555577793 La Luces 2001 Virilla Ivila
555208112 pond 1990 Tourn7e Silky Pond
555456551 Malpartida 2005 Tourn7e Sandra Eustaquia Malpartida
555707910 distress 2011 Violeta "Pingo" Benitez
555792433 La Wenceslao 1991 Gira Wenceslao
5331 filas seleccionadas.
SQL> _
```

11.In Concert, we found **some problems**: that the column Attendance was empty string. We solved it by taking 0 as default value according to the statement. We also found that there was one tour that was not registered ('The '88 Dude Tour' and 'Yamashiro'). Regarding repeated rows, there were **58813** distinct and not null-valued (non-optional) rows inserted.

```
SQL> select attendance from fsdb.livesingings where attendance is not null;

ninguna fila seleccionada
```

BS DEGREE IN INFORMATICS ENGINEERING

Academic year: 2022/2023 - 2nd year, 2nd term

Subject: File Structures and Databases

First Assignment's Report: Relational Design and Impl.

```
INSERT INTO Concert (Address, Municipality, Country, TourName, TourBand, EventDate, NumberAttendee) SELECT distinct A.ADDRESS, A.MUNICIPALITY, A.COUNTRY, NVL(A.TOUR, 'One-off'), A.PERFORMER, to_date(A.WHEN), 0 FROM fsdb.livesingings A
*
ERROR en línea 1:
ORA-02291: restriccion de integridad (FSDB253.FK_DL_TOURSCHEDULE_TOUR) violada
- clave principal no encontrada
```

```
SQL> SELECT DISTINCT A.TOUR, A.PERFORMER
2 FROM fsdb.livesingings A
3 WHERE A.TOUR IS NOT NULL
4 AND (A.TOUR, A.PERFORMER) NOT IN (SELECT DISTINCT Name, Band FROM Tour);
```

TOUR

PERFORMER

The '88 Dude Tour
Yamashiro

ADDRESS	MUNICIPALITY	COUNTRY
32 Our Lady of the Sanctuary Street	Honeyborough on Oder	Pitcairn
110 Soldier Roundabout	Lemmonland on Mississippi	Netherlands Antilles
130 Our Lady of the Sanctuary Slope	Shadowside on Ninyo	Belize
172 Bulling Street	Vortesside on Tucar	Netherlands Antilles
95 Orange Street	Butterland on Manzanares	Lebanon
181 Our Lady of the Happiness Street	Neerland on Manzanares	Latvia
94 Flax Road	Wolvesborough	Tonga

58813 filas seleccionadas.

12.In Performance, we found **some problems**: as there was an unregistered song ‘Something jazzes GB>>0600283845’, so we avoided it. Regarding repeated rows, there were **658141** distinct and not null-valued (non-optional) rows inserted.

```
SQL> INSERT INTO Performance (SongAuthor, SongTitle, Duration, ConcertBand, ConcertTour, ConcertEventDate, Order_) SELECT
DISTINCT WRITER, SONG, to_number(DURATION_MIN), PERFORMER, NVL(TOUR, 'One-off'), to_date(WHEN,'DD-MM-YYYY'), to_number
(SEQNUMBER) FROM fsdb.livesingings WHERE TOUR is not null and TOUR != 'The '88 Dude Tour' AND PERFORMER != 'Yamashiro'
;
INSERT INTO Performance (SongAuthor, SongTitle, Duration, ConcertBand, ConcertTour, ConcertEventDate, Order_) SELECT dis
tinct WRITER, SONG, to_number(DURATION_MIN), PERFORMER, NVL(TOUR, 'One-off'), to_date(WHEN,'DD-MM-YYYY'), to_number(SEQN
UMBER) FROM fsdb.livesingings WHERE TOUR is not null and TOUR != 'The '88 Dude Tour' AND PERFORMER != 'Yamashiro'
*
ERROR en línea 1:
ORA-02291: restriccion de integridad (FSDB253.FK_SONG) violada - clave
principal no encontrada
```

```
SQL> SELECT DISTINCT A.Song, A.writer
2 FROM fsdb.livesingings A
3 WHERE (A.song, A.writer) NOT IN (SELECT DISTINCT Title, author1 FROM Song);
```

SONG

WRITER

Something jazzes
GB>>0600283845

WRITER	SONG	TO_NUMBER(DURATION_MIN)	PERFORMER
SE>>8453558267	Leñador culpar	111	Orni
SE>>8862591886	Uranus	124	Retis Garcí
GB>>8292537522	Ship dancing	124	Retis Garcí
SE>>8018013866	Enigma	113	Rici
SE>>88370718839	Mars	117	Ricardo Mar
SE>>8881471467	Hand	117	Regardotop?
SE>>8887648526	Lightening and crazy	133	Requerdos d
SE>>8572037422	Hallelujah patio	110	Rami
SE>>8857888353	Absurdity and owner	110	Rami
SE>>8738238185	Taste	132	Ramon Jesus
SE>>8898482023	Lady	138	Raul Alduna

658141 filas seleccionadas.

13.In Attendee, we found **no problems**. Regarding repeated rows, there were **1500** distinct and not null-valued (non-optional) rows inserted.

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Subject: File Structures and Databases

First Assignment's Report: Relational Design and Impl.

uc3m

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de Madrid

```
SQL>
1500 filas seleccionadas.
```

```
NAME
-----
Rosalie
Rita
Rosa Leopoldina
Francisca Luna
```

```
SURNAME
-----
Osorio
Ochoa
Martin
Ricci
```

14. In DL AttendanceSheet, we found **no problems**. Regarding repeated rows, there were **21044** distinct and not null-valued (non-optional) rows inserted.

```
PERFORMER      WHEN      TOUR      ADDRESS
-----
Zeichnung      18-08-2019 The '19 Zeichnung Tour      40 Mango Road
Zeichnung      18-08-2019 The '19 Zeichnung Tour      40 Mango Road
Wenceslao      21-05-2019 '19      87 Almond Tree Avenue
Wenceslao      31-05-2019 '19      87 Almond Tree Avenue
Wenceslao      31-05-2019 '19      87 Almond Tree Avenue
Zeichnung      30-08-2019 The '19 Zeichnung Tour      185 Apple Circus
Zeichnung      30-08-2019 The '19 Zeichnung Tour      185 Apple Circus
Zeichnung      30-08-2019 The '19 Zeichnung Tour      185 Apple Circus
Zeichnung      30-08-2019 The '19 Zeichnung Tour      185 Apple Circus
Zeichnung      30-08-2019 The '19 Zeichnung Tour      185 Apple Circus
Zeichnung      30-08-2019 The '19 Zeichnung Tour      185 Apple Circus
PERFORMER      WHEN      TOUR      ADDRESS
-----
Zeichnung      30-08-2019 The '19 Zeichnung Tour      185 Apple Circus
21044 filas seleccionadas.
```