

# Model Report

## MER - Oracle

Version 1.0 • Proposed



Date/Time  
Generated:  
Author:

17/11/2019 09:51:12

bladimir

EA Repository : C:\Users\bladimir\Documents\UCC\Semestre 9\Arquitectura de Software\Practica Arquitectura 20190912\_V1.EAP

## Table of Contents

<b>MER - Oracle</b>	<b>4</b>
Data Model - Oracle diagram	4
Oracle	4
Oracle	4
Oracle diagram	5
ALERTA	5
APARATO_MEDICO	6
CONTROL	6
DETALLE_CONTROL	8
FUNCIONARIO	8
PACIENTE	9
USUARIO	10
Functions	10
Functions diagram	11
Packages	12
Packages diagram	12
Procedures	13
Procedures diagram	13
Queries	14
Queries diagram	14
Sequences	15
Sequences diagram	15
Tables	16
Tables diagram	16
ALERTA	16
APARATO_MEDICO	17
CONTROL	17
DETALLE_CONTROL	18
FUNCIONARIO	19
PACIENTE	20
USUARIO	21

Triggers .....	22
Triggers diagram .....	22
Views .....	23
Views diagram .....	23
«Database» Oracle .....	23

## MER - Oracle

Package «DataModel» in package 'Model'

MER - Oracle  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 15/11/2019

## Data Model - Oracle diagram

Data Modeling diagram in package 'MER - Oracle'

Data Model - Oracle  
Version 1.0  
EA created on 14/11/2019. Last modified 15/11/2019

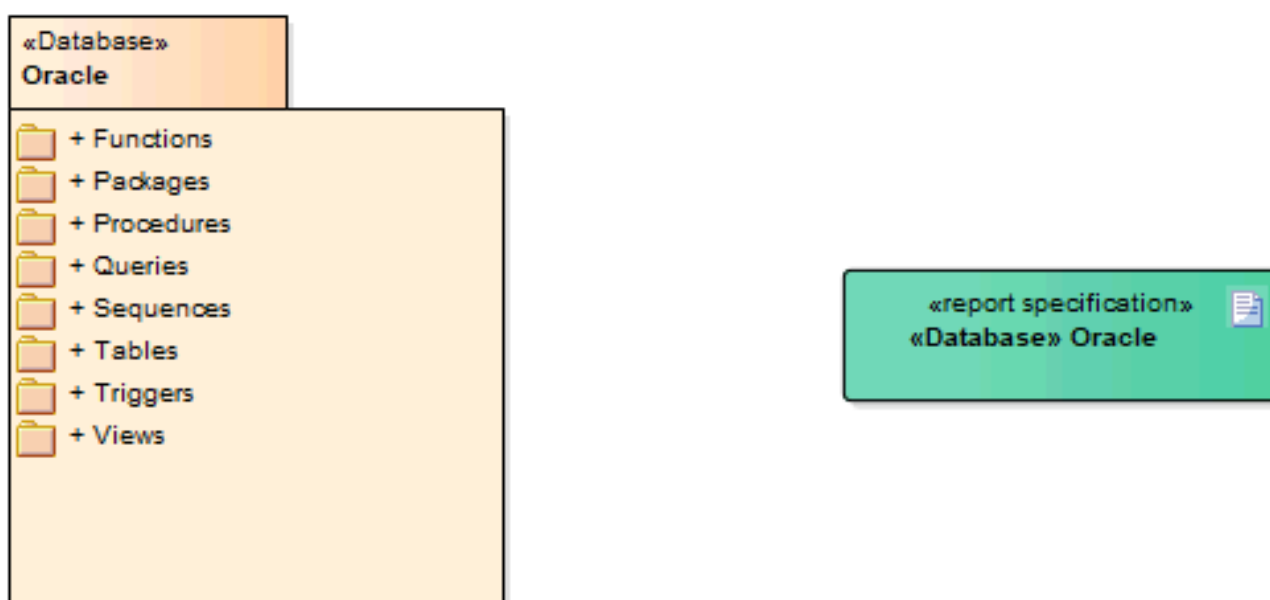


Figure 1: Data Model - Oracle

## Oracle

Package «Database» in package 'MER - Oracle'

Oracle  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019

## Oracle

Package «Database» in package 'MER - Oracle'

Oracle  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019

## Oracle diagram

Data Modeling diagram in package 'Oracle'

Oracle

Version 1.0

bladimir created on 14/11/2019. Last modified 15/11/2019



Figure 2: Oracle

## ALERTA

Database table in package 'Tables'


ALERTA


Version 1.0 Phase 1.0 Proposed


bladimir created on 15/11/2019. Last modified 15/11/2019

DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
ID_ALERTA	NUMBER(8,2)	True	
ID_APARATO	NUMBER(8,2)	True	
MINIMO	NUMBER(8,2)	True	
MAXIOMO	NUMBER(8,2)	True	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_ALERTA	ID_ALERTA	




TYPE / NAME	COLUMNS	COMMENTS
 «index» IXFK_ALERTA_APARATO_MEDICO	ID_APARATO	


FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_APARATO_MEDICO	ID_APARATO	APARATO_MEDICO(ID_APARATO)


## APARATO\_MEDICO

Database table in package 'Tables'

APARATO\_MEDICO  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 15/11/2019. Last modified 15/11/2019  
DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_APARATO	NUMBER(8,2)	True	
 DESCRIPCION	VARCHAR2(200)	False	
 NOMBRE	VARCHAR2(100)	False	










PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_APARATO	ID_APARATO	


TYPE / NAME	COLUMNS	COMMENTS
 «index» IXFK_APARATO_MEDICO_CONTROL		



## CONTROL




Database table in package 'Tables'

CONTROL  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 14/11/2019. Last modified 15/11/2019

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_CONTROL	NUMBER(8,2)	True	
 ID_PACIENTE	NUMBER(8,2)	True	
 ID_APARATO	NUMBER(8,2)	False	
 FECHA_INICIO	DATE	True	
 FECHA_FIN	DATE	True	
 HORA_INICIO	TIMESTAMP(6)	True	
 HORA_FIN	TIMESTAMP(6)	True	
 ID_USUARIO	NUMBER(8,2)	True	
 ID_USUAIO	NUMBER	False	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_ID_CONTROL	ID_CONTROL	





TYPE / NAME	COLUMNS	COMMENTS
 «index» IXFK_CONTROL_APARATO_MEDICO	ID_APARATO	
 «index» IXFK_CONTROL_USUARIO	ID_USUAIO	


FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_CONTROL_APARATO_MEDICO	ID_APARATO	APARATO_MEDICO(ID_APARATO)
 FK_CONTROL_USUARIO	ID_USUAIO	USUARIO(ID_USUAIO)
 FK_ID_PACIENTE	ID_PACIENTE	PACIENTE(ID_PACIENTE)


## DETALLE\_CONTROL


Database table in package 'Tables'

DETALLE\_CONTROL  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 15/11/2019. Last modified 15/11/2019  
DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_DETALLE	NUMBER(8,2)	True	
 ID_CONTROL	NUMBER(8,2)	True	
 HORA	TIMESTAMP(6)	False	
 DETALLE	VARCHAR2(200)	False	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_DETALLE_CONTROL	ID_DETALLE	




TYPE / NAME	COLUMNS	COMMENTS
 «index» IXFK_DETALLE_CONTROL_CONTROL	ID_CONTROL	

FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_DETALLE_CONTROL	ID_CONTROL	CONTROL(ID_CONTROL)





## FUNCIONARIO


Database table in package 'Tables'

FUNCIONARIO  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 15/11/2019. Last modified 15/11/2019  
DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_FUNCIONARIO	NUMBER(8,2)	True	
 IDENTIFICACION	VARCHAR2(50)	False	
 NOMBRE	VARCHAR2(50)	False	











COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 APELLIDOS	VARCHAR2(50)	False	
 DIRECCION	VARCHAR2(50)	False	
 TELEFONO	VARCHAR2(50)	False	
 EMAIL	VARCHAR2(50)	False	


PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_FUNCIONARIO	ID_FUNCIONARIO	

## PACIENTE

Database table in package 'Tables'

PACIENTE  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 14/11/2019. Last modified 15/11/2019  
DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_PACIENTE	NUMBER(8,2)	True	
 NOMBRE	VARCHAR2(100)	True	
 APELLIDO	VARCHAR2(100)	True	
 FECHA_NACIMIENTO	DATE	True	
 SEXO	VARCHAR2(20)	True	
 TELEFONO	VARCHAR2(20)	True	
 DIRECCION	VARCHAR2(50)	True	
 EMAIL	VARCHAR2(50)	False	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_PACIENTE	ID_PACIENTE	

## USUARIO





Database table in package 'Tables'


USUARIO


Version 1.0 Phase 1.0 Proposed


bladimir created on 15/11/2019. Last modified 15/11/2019

DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_USUAIO	NUMBER(8,2)	True	
 LOGIN	VARCHAR2(50)	True	
 CONTRASEÑA	VARCHAR2(50)	False	
 ID_FUNCIONARIO	NUMBER(8,2)	False	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_USUARIO	ID_USUAIO	

TYPE / NAME	COLUMNS	COMMENTS
 «index» IXFK_USUARIO_FUNCIONARIO	ID_FUNCIONARIO	

FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_USUARIO_FUNCIONARIO	ID_FUNCIONARIO	FUNCIONARIO(ID_FUNCIONARIO)

## Functions

Package in package 'Oracle'

Functions

Version 1.0 Phase 1.0 Proposed

EA created on 14/11/2019. Last modified 14/11/2019

## ***Functions diagram***

*Data Modeling diagram in package 'Functions'*

Functions  
Version 1.0

bladimir created on 14/11/2019. Last modified 14/11/2019

Figure 3: Functions

## Packages

*Package in package 'Oracle'*

Packages  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019

## Packages diagram

*Data Modeling diagram in package 'Packages'*

Packages  
Version 1.0  
bladimir created on 14/11/2019. Last modified 14/11/2019

Figure 4: Packages

## Procedures

*Package in package 'Oracle'*

Procedures  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019

## Procedures diagram

*Data Modeling diagram in package 'Procedures'*

Procedures  
Version 1.0  
bladimir created on 14/11/2019. Last modified 14/11/2019

Figure 5: Procedures

## Queries

*Package in package 'Oracle'*

Queries  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019

## Queries diagram

*Data Modeling diagram in package 'Queries'*

Queries  
Version 1.0  
bladimir created on 14/11/2019. Last modified 14/11/2019

Figure 6: Queries

## Sequences

*Package in package 'Oracle'*

Sequences  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019

## Sequences diagram

*Data Modeling diagram in package 'Sequences'*

Sequences  
Version 1.0  
bladimir created on 14/11/2019. Last modified 14/11/2019

Figure 7: Sequences

## Tables

Package in package 'Oracle'

Tables  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019

## Tables diagram

Data Modeling diagram in package 'Tables'





Tables  
Version 1.0  
bladimir created on 14/11/2019. Last modified 14/11/2019


Figure 8: Tables

## ALERTA

Database table in package 'Tables'

ALERTA  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 15/11/2019. Last modified 15/11/2019  
DBMS Oracle


COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_ALERTA	NUMBER(8,2)	True	
 ID_APARATO	NUMBER(8,2)	True	
 MINIMO	NUMBER(8,2)	True	
 MAXIOMO	NUMBER(8,2)	True	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_ALERTA	ID_ALERTA	

TYPE / NAME	COLUMNS	COMMENTS
-------------	---------	----------






 «index» IXFK_ALERTA_APARATO_MEDICO	ID_APARATO	
---	------------	--


FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_APARATO_MEDICO	ID_APARATO	APARATO_MEDICO(ID_APARATO)


## APARATO\_MEDICO

Database table in package 'Tables'

APARATO\_MEDICO  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 15/11/2019. Last modified 15/11/2019  
DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_APARATO	NUMBER(8,2)	True	
 DESCRIPCION	VARCHAR2(200)	False	
 NOMBRE	VARCHAR2(100)	False	


PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_APARATO	ID_APARATO	









TYPE / NAME	COLUMNS	COMMENTS
 «index» IXFK_APARATO_MEDICO_CONTROL		


## CONTROL



Database table in package 'Tables'




CONTROL  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 14/11/2019. Last modified 15/11/2019  
DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_CONTROL	NUMBER(8,2)	True	

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_PACIENTE	NUMBER(8,2)	True	
 ID_APARATO	NUMBER(8,2)	False	
 FECHA_INICIO	DATE	True	
 FECHA_FIN	DATE	True	
 HORA_INICIO	TIMESTAMP(6)	True	
 HORA_FIN	TIMESTAMP(6)	True	
 ID_USUARIO	NUMBER(8,2)	True	
 ID_USUAIO	NUMBER	False	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_ID_CONTROL	ID_CONTROL	

TYPE / NAME	COLUMNS	COMMENTS
 «index» IXFK_CONTROL_APARATO_MEDICO	ID_APARATO	
 «index» IXFK_CONTROL_USUARIO	ID_USUAIO	





FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_CONTROL_APARATO_MEDICO	ID_APARATO	APARATO_MEDICO(ID_APARATO)
 FK_CONTROL_USUARIO	ID_USUAIO	USUARIO(ID_USUAIO)
 FK_ID_PACIENTE	ID_PACIENTE	PACIENTE(ID_PACIENTE)


## DETALLE\_CONTROL


Database table in package 'Tables'


DETALLE\_CONTROL  
Version 1.0 Phase 1.0 Proposed

bladimir created on 15/11/2019. Last modified 15/11/2019  
DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_DETALLE	NUMBER(8,2)	True	
 ID_CONTROL	NUMBER(8,2)	True	
 HORA	TIMESTAMP(6)	False	
 DETALLE	VARCHAR2(200)	False	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_DETALLE_CONTROL	ID_DETALLE	





TYPE / NAME	COLUMNS	COMMENTS
 «index» IXFK_DETALLE_CONTROL_CONTROL	ID_CONTROL	




FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_DETALLE_CONTROL	ID_CONTROL	CONTROL(ID_CONTROL)


## FUNCIONARIO

Database table in package 'Tables'

FUNCIONARIO  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 15/11/2019. Last modified 15/11/2019  
DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_FUNCIONARIO	NUMBER(8,2)	True	
 IDENTIFICACION	VARCHAR2(50)	False	
 NOMBRE	VARCHAR2(50)	False	
 APELLIDOS	VARCHAR2(50)	False	









COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 DIRECCION	VARCHAR2(50)	False	
 TELEFONO	VARCHAR2(50)	False	
 EMAIL	VARCHAR2(50)	False	


PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_FUNCIONARIO	ID_FUNCIONARIO	

## PACIENTE

Database table in package 'Tables'

PACIENTE  
Version 1.0 Phase 1.0 Proposed  
bladimir created on 14/11/2019. Last modified 15/11/2019  
DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_PACIENTE	NUMBER(8,2)	True	
 NOMBRE	VARCHAR2(100)	True	
 APELLIDO	VARCHAR2(100)	True	
 FECHA_NACIMIENTO	DATE	True	
 SEXO	VARCHAR2(20)	True	
 TELEFONO	VARCHAR2(20)	True	
 DIRECCION	VARCHAR2(50)	True	
 EMAIL	VARCHAR2(50)	False	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_PACIENTE	ID_PACIENTE	

**USUARIO**





Database table in package 'Tables'


USUARIO


Version 1.0 Phase 1.0 Proposed


bladimir created on 15/11/2019. Last modified 15/11/2019

DBMS Oracle

COLUMN NAME	DATATYPE	NOT NULL	COMMENTS
 ID_USUAIO	NUMBER(8,2)	True	
 LOGIN	VARCHAR2(50)	True	
 CONTRASEÑA	VARCHAR2(50)	False	
 ID_FUNCIONARIO	NUMBER(8,2)	False	

PRIMARY KEY NAME	COLUMNS	COMMENTS
 PK_USUARIO	ID_USUAIO	

TYPE / NAME	COLUMNS	COMMENTS
 «index» IXFK_USUARIO_FUNCIONARIO	ID_FUNCIONARIO	

FOREIGN KEY NAME	COLUMNS	REFERENCES
 FK_USUARIO_FUNCIONARIO	ID_FUNCIONARIO	FUNCIONARIO(ID_FUNCIONARIO)

## Triggers

*Package in package 'Oracle'*

Triggers  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019

## Triggers diagram

*Data Modeling diagram in package 'Triggers'*

Triggers  
Version 1.0  
bladimir created on 14/11/2019. Last modified 14/11/2019

Figure 9: Triggers

## Views

*Package in package 'Oracle'*

Views  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019

## Views diagram

*Data Modeling diagram in package 'Views'*

Views  
Version 1.0  
bladimir created on 14/11/2019. Last modified 14/11/2019

Figure 10: Views

## «Database» Oracle

*ReportSpecification «EAReportSpecification» in package 'MER - Oracle'*

«Database» Oracle  
Version 1.0 Phase 1.0 Proposed  
EA created on 14/11/2019. Last modified 14/11/2019