

דו"ח בסיסי נתונים עבור בית חולים "חדר ניתוח"

Eliaou Madar 1954753

Haim Hai 345516224

Project description:

Our hospital has several operating rooms equipped for a variety of complex surgical procedures, managed by a dedicated team of doctors and nurses ensuring their smooth operation and patient safety. Each room can accommodate multiple operations, planned to minimize patient waiting times. A doctor may perform multiple operations, while a patient may undergo multiple operations during their hospital stay. Nurses, playing a key role, can assist in several operations and are also responsible for maintaining equipment. Additionally, each piece of equipment can be used for multiple operations, thereby optimizing hospital resources.

Description of entities:

1. Patient (חולה):

- Patient_ID (PK) - Patient's identification number
- Patient_Name - The patient name
- Sexe - The sexe of the patient
- Illness - Brief description of the subject of the operation.

2. Operation (ניתוח):

- Operation_ID (PK) - Operation's identification number
- Operation_Date - The date of the operation
- Duration_Operation - The time that takes the operation

3. Operating Room (חדר ניתוח):

- Room_ID (PK) - Room's identification number
- Availability - Indicates if the room is available.
- Max_number_people - indicates the maximum number of people that the room can accommodate

4. Equipment (ציוד):

- Equipment_ID (PK) - Equipment's identification number
- Equipment_Name - The equipment name
- Equipment_Status - Indicates whether the equipment is available.
- Equipment_Purchase_Date - Date of purchase of the equipment

5. Nurse (אחות):

- Nurse_ID (PK) - Nurse's identification number
- Nurse_Name - The nurse name
- Telephone_number - The telephone number of the nurse

6. Doctor (רופא):

- Doctor_ID (PK) - Doctor's identification number

- Doctor_Name - The doctor name
- Specialty - The doctor's specialty

Description of the relationships between the entities:

A doctor can perform several operations. (M: N)
An operation is carried out by one or more doctors.

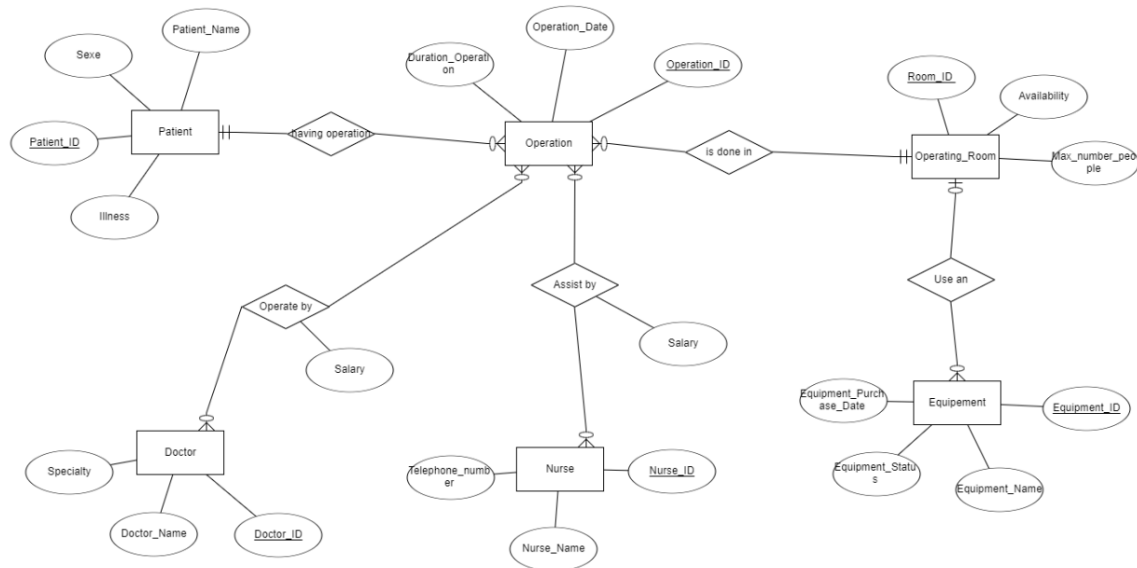
An operation takes place in a single room. (M: 1)
A room can accommodate several operations.

A patient may undergo several operations. (1: N)
An operation concerns a single patient.

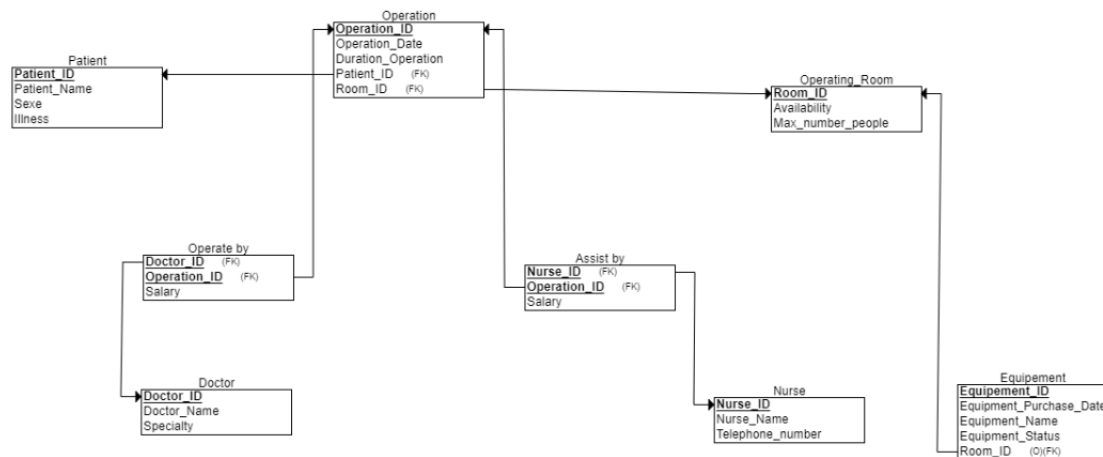
One piece of equipment can be used by a maximum of one operations room. (1: N)
An operating room may require several pieces of equipment.

A nurse can attend several operations. (M: N)
An operation can be assisted by several nurses.

ERD diagram:



DSD diagram:



All tables are at 3NF level and there is no need for further normalization. We will prove it:

All tables are in 1NF because all fields are atomic.

All tables respect 2NF, because each table has a unique key. Therefore, no column depends on part of the key, but on the entire key.

All tables respect 3NF: there is no dependency between the different fields, the only dependency being that of the primary key.

Creating the tables:

Creating the **Patient** table:

```

-- Create table
create table PATIENT
(
    patient_id    INTEGER not null,
    sexe          VARCHAR2(30) not null,
    patient_name  VARCHAR2(30) not null,
    illness       VARCHAR2(100) not null
)
tablespace SYSTEM
pctfree 10
pctused 40
initrans 1
maxtrans 255
storage
(
    initial 64K
    next 1M
    minextents 1
    maxextents unlimited
);
-- Create/Recreate primary, unique and foreign key constraints
alter table PATIENT
add primary key (PATIENT_ID)
using index
tablespace SYSTEM
pctfree 10
initrans 2
maxtrans 255
storage
(

```

General Columns Keys Checks Indexes Privileges Triggers										
Name	Type	Columns	Enabled	Referencing table	Referencing columns	On Delete	Deferrable	Deferred	Validated	Last change
▶ SYS_C008318	Primary	PATIENT_ID	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 15:14:36

General Columns Keys Checks Indexes Privileges Triggers										
Type owner	Name									
Name	Virtual	Type	Nullable	Default/Expr.	Generated	On Null	Invisible	Storage	Comments	
▶ PATIENT_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
SEXE	<input type="checkbox"/>	VARCHAR2(30)	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
PATIENT_NAME	<input type="checkbox"/>	VARCHAR2(30)	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
ILLNESS	<input type="checkbox"/>	VARCHAR2(100)	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			

Creating the **Operation** table:

General Columns Keys Checks Indexes Privileges Triggers										
Type owner			Name							
Name	Virtual	Type	Nullable	Default/Expr.	Generated	On Null	Invisible	Storage	Comments	
▶ OPERATION_DATE	<input type="checkbox"/>	DATE	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
DURATION_OPERATION	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
OPERATION_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
PATIENT_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
ROOM_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			

General Columns Keys Checks Indexes Privileges Triggers										
Name	Type	Columns	Enabled	Referencing table	Referencing columns	On Delete	Deferrable	Deferred	Validated	Last change
▶ SYS_C008399	Primary	OPERATION_ID	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52
SYS_C008400	Foreign	PATIENT_ID	<input checked="" type="checkbox"/>	PATIENT	PATIENT_ID	No action	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52
SYS_C008401	Foreign	ROOM_ID	<input checked="" type="checkbox"/>	OPERATING_ROOM	ROOM_ID	No action	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52

```
-- Create table
create table OPERATION
(
  operation_date      DATE not null,
  duration_operation  INTEGER not null,
  operation_id        INTEGER not null,
  patient_id          INTEGER not null,
  room_id             INTEGER not null
)
tablespace SYSTEM
pctfree 10
pctused 40
initrans 1
maxtrans 255
storage
(
  initial 64K
  next 1M
  minextents 1
  maxextents unlimited
);
-- Create/Recreate primary, unique and foreign key constraints
alter table OPERATION
add primary key (OPERATION_ID)
using index
tablespace SYSTEM
pctfree 10
initrans 2
maxtrans 255
storage
```

Creating the **Operating Room** table:

Name	Type	Columns	Enabled	Referencing table	Referencing columns	On Delete	Deferrable	Deferred	Validated	Last change
▶ SYS_C008379	Primary	ROOM_ID	✓				<input type="checkbox"/>	<input type="checkbox"/>	✓	27/05/2024 20:47:52

Name	Virtual	Type	Nullable	Default/Expr.	Generated	On Null	Invisible	Storage	Comments
▶ ROOM_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
AVAILABILITY	<input type="checkbox"/>	VARCHAR2(10)	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
MAX_NUMBER_PEOPLE	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		


```
-- Create table
create table OPERATING_ROOM
(
    room_id          INTEGER not null,
    availability      VARCHAR2(10) not null,
    max_number_people INTEGER not null
)
tablespace SYSTEM
pctfree 10
pctused 40
initrans 1
maxtrans 255
storage
(
    initial 64K
    next 1M
    minextents 1
    maxextents unlimited
);
-- Create/Recreate primary, unique and foreign key constraints
alter table OPERATING_ROOM
add primary key (ROOM_ID)
using index
tablespace SYSTEM
pctfree 10
initrans 2
maxtrans 255
storage
(
    initial 64K
```

Creating the **Equipment** table:

General Columns Keys Checks Indexes Privileges Triggers										
Name	Type	Columns	Enabled	Referencing table	Referencing columns	On Delete	Deferrable	Deferred	Validated	Last change
► SYS_C008384	Primary	EQUIPEMENT_ID	✓				<input type="checkbox"/>	<input type="checkbox"/>	✓	27/05/2024 20:47:52
SYS_C008385	Foreign	ROOM_ID	✓	OPERATING_ROOM	ROOM_ID	No action	<input type="checkbox"/>	<input type="checkbox"/>	✓	27/05/2024 20:47:52

General Columns Keys Checks Indexes Privileges Triggers										
Type owner		Name								
Name	Virtual	Type	Nullable	Default/Expr.	Generated	On Null	Invisible	Storage	Comments	
► EQUIPEMENT_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
EQUIPEMENT_PURCHASE_DATE	<input type="checkbox"/>	DATE	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
EQUIPEMENT_NAME	<input type="checkbox"/>	VARCHAR2(30)	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
EQUIPEMENT_STATUS	<input type="checkbox"/>	VARCHAR2(30)	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
ROOM_ID	<input type="checkbox"/>	INTEGER	✓			<input type="checkbox"/>	<input type="checkbox"/>			

```
-- Create table
create table EQUIPEMENT
(
    equipment_id          INTEGER not null,
    equipment_purchase_date DATE not null,
    equipment_name         VARCHAR2(30) not null,
    equipment_status       VARCHAR2(30) not null,
    room_id               INTEGER
)
tablespace SYSTEM
pctfree 10
pctused 40
initrans 1
maxtrans 255
storage
(
    initial 64K
    next 1M
    minextents 1
    maxextents unlimited
);
-- Create/Recreate primary, unique and foreign key constraints
alter table EQUIPEMENT
    add primary key (EQUIPEMENT_ID)
    using index
    tablespace SYSTEM
    pctfree 10
    initrans 2
    maxtrans 255
    storage
```

Creating the **Nurse** table:

General

Columns

Keys

Checks

Indexes

Privileges

Triggers

Type owner

Name

Name	Virtual	Type	Nullable	Default/Expr.	Generated	On Null	Invisible	Storage	Comments
NURSE_NAME	<input type="checkbox"/>	VARCHAR2(30)	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
TELEPHONE_NUMBER	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
NURSE_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		

General

Columns

Keys

Checks

Indexes

Privileges

Triggers

Name	Type	Columns	Enabled	Referencing table	Referencing columns	On Delete	Deferrable	Deferred	Validated	Last change
SYS_C008393	Primary	NURSE_ID	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52

```

-- Create table
create table NURSE
(
  nurse_name          VARCHAR2(30) not null,
  telephone_number    INTEGER not null,
  nurse_id            INTEGER not null
)
tablespace SYSTEM
pctfree 10
pctused 40
initrans 1
maxtrans 255
storage
(
  initial 64K
  next 1M
  minextents 1
  maxextents unlimited
);
-- Create/Recreate primary, unique and foreign key constraints
alter table NURSE
add primary key (NURSE_ID)
using index
tablespace SYSTEM
pctfree 10
initrans 2
maxtrans 255
storage
(
  initial 64K

```

Creating the **Doctor** table:

General Columns Keys Checks Indexes Privileges Triggers										
Type owner				Name						
Name	Virtual	Type	Nullable	Default/Expr.	Generated	On Null	Invisible	Storage	Comments	
▶ DOCTOR_NAME	<input type="checkbox"/>	VARCHAR2(30)	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
SPECIALTY	<input type="checkbox"/>	VARCHAR2(50)	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
DOCTOR_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			

General Columns Keys Checks Indexes Privileges Triggers										
Name	Type	Columns	Enabled	Referencing table	Referencing columns	On Delete	Deferrable	Deferred	Validated	Last change
▶ SYS_C008389	Primary	DOCTOR_ID	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52

```
-- Create table
create table DOCTOR
(
    doctor_name VARCHAR2(30) not null,
    specialty   VARCHAR2(50) not null,
    doctor_id   INTEGER not null
)
tablespace SYSTEM
pctfree 10
pctused 40
initrans 1
maxtrans 255
storage
(
    initial 64K
    next 1M
    minextents 1
    maxextents unlimited
);
-- Create/Recreate primary, unique and foreign key constraints
alter table DOCTOR
add primary key (DOCTOR_ID)
using index
tablespace SYSTEM
pctfree 10
initrans 2
maxtrans 255
storage
(
    initial 64K
```

Creating the **Assist by** table:

General

Columns

Keys

Checks

Indexes

Privileges

Triggers

Type owner

Name

Name	Virtual	Type	Nullable	Default/Expr.	Generated	On Null	Invisible	Storage	Comments
SALARY	<input type="checkbox"/>	FLOAT	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
NURSE_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
OPERATION_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		

General

Columns

Keys

Checks

Indexes

Privileges

Triggers

Name	Type	Columns	Enabled	Referencing table	Referencing columns	On Delete	Deferrable	Deferred	Validated	Last change
SYS_C008411	Primary	NURSE_ID, OPERATION_ID	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52
SYS_C008412	Foreign	NURSE_ID	<input checked="" type="checkbox"/>	NURSE	NURSE_ID	No action	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52
SYS_C008413	Foreign	OPERATION_ID	<input checked="" type="checkbox"/>	OPERATION	OPERATION_ID	No action	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52

```
-- Create table
create table ASSIST_BY
(
    salary          FLOAT not null,
    nurse_id        INTEGER not null,
    operation_id    INTEGER not null
)
tablespace SYSTEM
pctfree 10
pctused 40
initrans 1
maxtrans 255
storage
(
    initial 64K
    next 1M
    minextents 1
    maxextents unlimited
);

-- Create/Recreate primary, unique and foreign key constraints
alter table ASSIST_BY
add primary key (NURSE_ID, OPERATION_ID)
using index
tablespace SYSTEM
pctfree 10
initrans 2
maxtrans 255
storage
(
    initial 64K
```

Creating the **Operate by** table:

GeneralColumnsKeysChecksIndexesPrivilegesTriggers

Type ownerName

Name	Virtual	Type	Nullable	Default/Expr.	Generated	On Null	Invisible	Storage	Comments
SALARY	<input type="checkbox"/>	FLOAT	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
DOCTOR_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		
OPERATION_ID	<input type="checkbox"/>	INTEGER	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>		

GeneralColumnsKeysChecksIndexesPrivilegesTriggers

Name	Type	Columns	Enabled	Referencing table	Referencing columns	On Delete	Deferrable	Deferred	Validated	Last change
SYS_C008405	Primary	DOCTOR_ID, OPERATION_ID	<input checked="" type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52
SYS_C008406	Foreign	DOCTOR_ID	<input checked="" type="checkbox"/>	DOCTOR	DOCTOR_ID	No action	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52
SYS_C008407	Foreign	OPERATION_ID	<input checked="" type="checkbox"/>	OPERATION	OPERATION_ID	No action	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27/05/2024 20:47:52

```
-- Create table
create table OPERATE_BY
(
    salary          FLOAT not null,
    doctor_id       INTEGER not null,
    operation_id    INTEGER not null
)
tablespace SYSTEM
pctfree 10
pctused 40
initrans 1
maxtrans 255
storage
(
    initial 64K
    next 1M
    minextents 1
    maxextents unlimited
);
-- Create/Recreate primary, unique and foreign key constraints
alter table OPERATE_BY
add primary key (DOCTOR_ID, OPERATION_ID)
using index
tablespace SYSTEM
pctfree 10
initrans 2
maxtrans 255
storage
(
    initial 64K
```

Entering data by GENERATOR DATA.

Entering data into the Patient table:

PATIENT

< Owner: SYSTEM Table: PATIENT Number of records: 10..20

...

Name	Type	Size	Data
✓ PATIENT_ID	NUMBER	38	Random(100, 200)
PATIENT_NAME	VARCHAR2	30	FirstName
SEXE	VARCHAR2	30	List('Man', 'Woman')
ILLNESS	VARCHAR2	100	List('heart', 'lung', 'liver')
*			

SQL Output Statistics

```
select * from PATIENT
```

SQL Editor toolbar: [Icons for undo, redo, save, etc.]

	PATIENT_ID	PATIENT_NAME	SEXE	ILLNESS
▶ 1	137	Isaac	Woman	lung
2	166	Ellen	Man	heart
3	109	Gene	Woman	lung
4	140	Gordon	Woman	lung
5	106	Tori	Man	heart
6	123	Tim	Man	heart
7	113	Alicia	Man	liver
8	179	Yolanda	Woman	liver
9	172	Amy	Woman	lung
10	161	Natalie	Man	heart
11	197	Carrie-Anne	Woman	heart
12	112	Tea	Man	lung
13	200	Whoopi	Man	lung
14	170	Eric	Woman	heart
15	154	Rene	Man	heart
16	157	Moe	Man	lung
17	178	Cornell	Woman	lung
18	146	Fisher	Man	heart
19	135	Bret	Woman	liver
20	186	Norm	Woman	lung
21	162	Rosanna	Woman	lung
22	134	Marianne	Man	lung

Entering data into the Operating_Room table:

OPERATING_ROOM

< Owner Table Number of records
> SYSTEM OPERATING_ROOM 10..20

...

Name	Type	Size	Data
ROOM_ID	NUMBER		Random(0, 100)
AVAILABILITY	VARCHAR2	10	List('Yes', 'No')
MAX_NUMBER_PEOPLE	NUMBER		Random(0, 20)
*			

SQL Output Statistics

```
select * from OPERATING_ROOM
```

ROOM_ID AVAILABILITY MAX_NUMBER_PEOPLE

1	79 Yes	14
2	71 Yes	20
3	4 No	1
4	67 Yes	6
5	30 Yes	11
6	15 No	8
7	69 No	16
8	43 No	8
9	47 No	16
10	52 Yes	20
11	1 No	20

Entering data into the Doctor table:

DOCTOR

< Owner Table Number of records
> SYSTEM DOCTOR 10..20

...

Name	Type	Size	Data
DOCTOR_NAME	VARCHAR2	30	FirstName
SPECIALTY	VARCHAR2	50	List('Cardiology', 'Neurology', 'Orthopedic surgery')
DOCTOR_ID	NUMBER		Random(200, 300)

SQL				
Output				
Statistics				
select * from DOCTOR				
	DOCTOR_NAME	SPECIALTY	DOCTOR_ID	
1	Amanda	Cardiology	283	
2	Arturo	Orthopedic surgery	268	
3	Albert	Orthopedic surgery	296	
4	Pelvic	Orthopedic surgery	262	
5	Gaby	Cardiology	272	
6	Denzel	Cardiology	289	
7	Nickel	Neurology	232	
8	Kelly	Orthopedic surgery	215	
9	Mark	Orthopedic surgery	212	
10	Mitchell	Cardiology	297	
11	Olympia	Neurology	207	
12	Ernest	Neurology	222	

Entering data into the Nurse table:

NURSE

< Owner Table Number of records

> SYSTEM NURSE 10..20

...

	Name	Type	Size	Data
	NURSE_NAME	VARCHAR2	30	FirstName
	TELEPHONE_NUMBER	NUMBER		Random(0000000000, 9999999999)
	NURSE_ID	NUMBER		Random(300, 400)
▶				

SQL Output Statistics				
select * from NURSE				
		NURSE_NAME	TELEPHONE_NUMBER	NURSE_ID
1	Davy	***	0	379
2	Goldie	***	0	346
3	Maury	***	0	328
4	Night	***	0	314
5	Chrissie	***	0	394
6	Sheryl	***	0	352
7	Rebeka	***	0	319
8	Lindsey	***	0	390
9	Roy	***	0	375
10	Suzanne	***	0	301
11	Lou	***	0	371
12	Rupert	***	0	327
13	Catherine	***	0	349
14	Rutger	***	0	393
15	Hookah	***	0	317
16	Natacha	***	0	357
17	Gwyneth	***	0	389
18	Talvin	***	0	351
19	Carla	***	0	300
20	Barry	***	0	400
21	Petula	***	0	320
22	Andre	***	0	341
23	Pierce	***	0	348

Entering data by TEXT file

Inserting data into the Operate_by table:



*textimport - Bloc-notes

Fichier Edition Format Affichage Aide

201, 501, 5000.0
 202, 502, 5500.0
 203, 503, 6000.0
 204, 504, 4500.0
 205, 505, 7000.0
 206, 506, 5200.0
 207, 507, 4800.0
 208, 508, 5300.0
 209, 509, 5900.0
 210, 510, 6200.0

Data from Textfile Data to Oracle

File Data

201,	501,	5000.0
202,	502,	5500.0
203,	503,	6000.0
204,	504,	4500.0
205,	505,	7000.0
206,	506,	5200.0
207,	507,	4800.0
208,	508,	5300.0
209,	509,	5900.0

Configuration

General

Fieldcount: 3

Quote character: "

Comment line:

Import lines: 1 ..

Field1 (+0 .. ",")

Field2 (+0 .. ",")

Field3 (+0 .. ",")

Field Start

☒ Relative position 0

☐ Absolute position

☐ Character

Field End

☐ Length

☒ Character

Filter:

Data from Textfile Data to Oracle

General

Owner:

Table: OPERATE_BY

Commit every...: 100

☒ Overwrite duplicates ☐ Delete records

☐ Ignore duplicates ☐ Truncate table

Initializing Script:

Finalizing Script:

Fields

Field1 -> OPERATION_ID (NUMBER)

Field2 ->

Field3 ->

Field: ERATION_ID (NUMBER)

Fieldtype: Number

Create SQL

Entering data by EXCEL:

Entering data into the Equipement table:

E4						
	A	B	C	D	E	F
1	401	TO_DATE('03/01/2016	Scalpel	New	1	
2	402	TO_DATE('04/01/2016	Scalpel	Old	2	
3	403	TO_DATE('05/01/2016	Scalpel	New	3	
4						

Data from Textfile Data to Oracle

General

Owner Table

Commit every... ☒ Overwrite duplicates ☐ Ignore duplicates ☐ Delete records ☐ Truncate table

Initializing Script

Finalizing Script

SQL Output Statistics

```
select * from EQUIPEMENT
```

	EQUIPEMENT_ID	EQUIPEMENT_PURCHASE_DATE	EQUIPEMENT_NAME	EQUIPEMENT_STATUS	ROOM_ID
1	463	04/11/1971	Operating table	Available	79

Entering data into the Operation table:

D4

	A	B	C	D	E	F
1	501	TO_DATE('03/01/2016	120	101	1	
2	502	TO_DATE('04/01/2016	121	102	2	
3	503	TO_DATE('05/01/2016	122	103	3	

General

Owner Table

Commit every... ☒ Overwrite duplicates ☐ Ignore duplicates ☐ Delete records ☐ Truncate table

Initializing Script


Finalizing Script

SQL

Output

Statistics

select * from OPERATION



		OPERATION_DATE		DURATION_OPERATION		OPERATION_ID		PATIENT_ID		ROOM_ID	
▶	1	26/12/1955	***	8		145		135		30	
	2	06/04/1981	***	13		183		140		15	
	3	31/10/2000	***	15		186		161		67	
	4	27/05/1943	***	11		160		170		79	
	5	19/03/1997	***	21		169		134		69	
	6	06/01/2007	***	3		191		161		69	
	7	18/09/2004	***	9		118		135		69	
	8	09/03/2002	***	11		192		135		47	
	9	17/01/1985	***	14		187		137		43	
	10	01/03/1941	***	24		115		154		1	
	11	29/05/1947	***	19		165		162		52	
	12	30/07/1975	***	19		101		166		47	
	13	29/08/1960	***	21		111		162		52	
	14	27/03/1971	***	22		116		146		30	
	15	11/05/1973	***	7		107		172		69	
	16	07/07/1953	***	9		127		109		43	
	17	17/03/1917	***	6		158		146		69	
	18	08/06/1909	***	4		105		112		1	

Inserting data by INSERT commands:

SQL


Output

Statistics

INSERT INTO Operating_Room (Room_ID, Availability, Max_number_people) VALUES
(2, 'Available', 5);
select * from Operating_Room

Insert operating_room

Select operating_room



	ROOM_ID	AVAILABILITY	MAX_NUMBER_PEOPLE
▶ 1	79	Yes	14
2	71	Yes	20
3	4	No	1
4	67	Yes	6
5	30	Yes	11
6	15	No	8
7	69	No	16
8	43	No	8
9	47	No	16
10	52	Yes	20
11	1	No	20
12	2	Available	5