

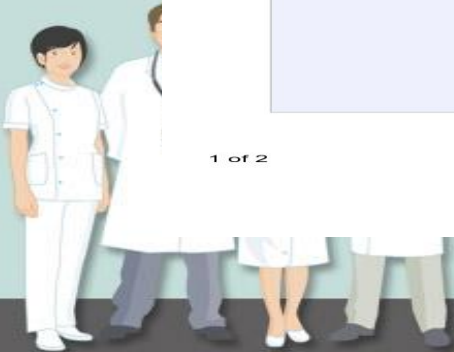
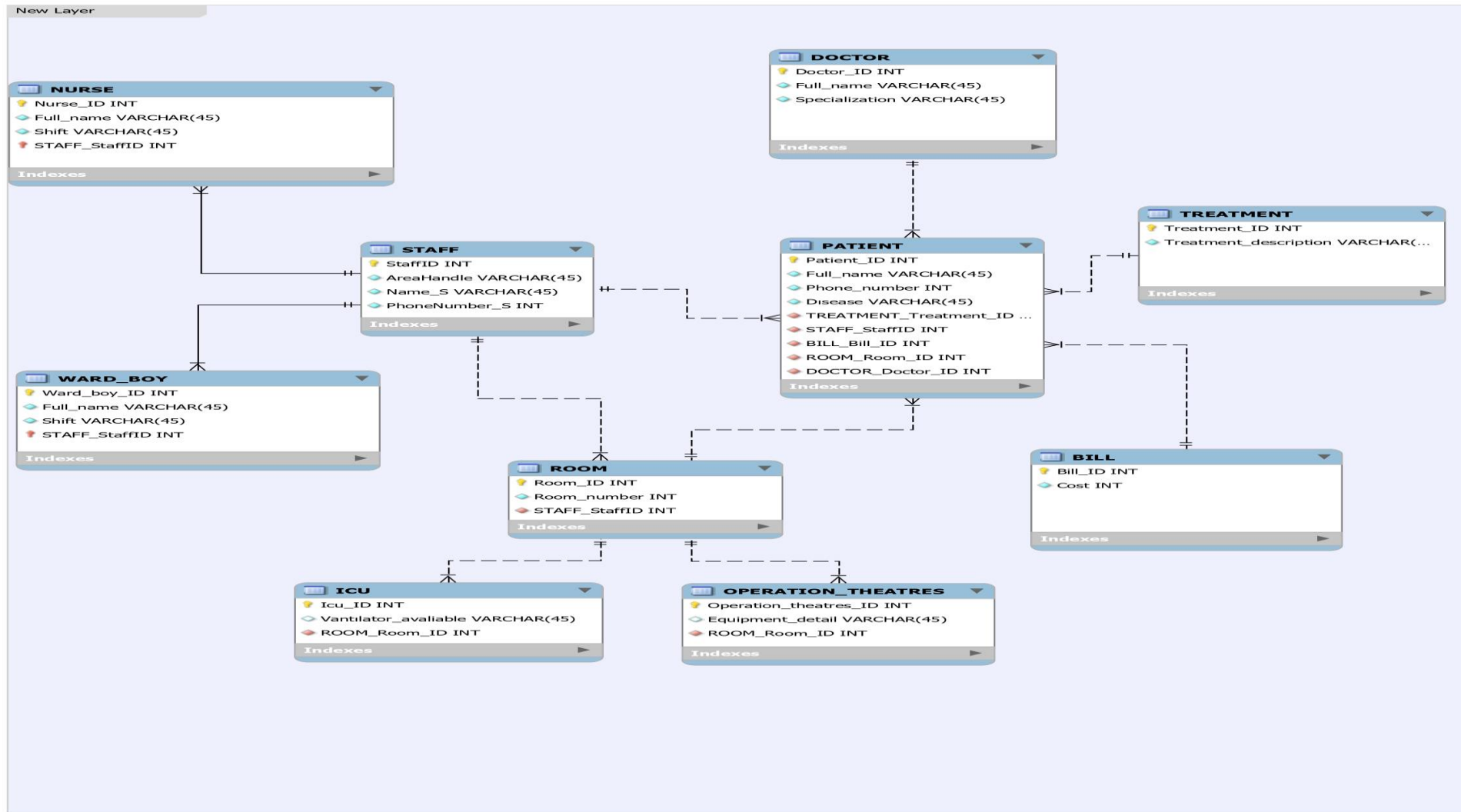
Entity and Attributes

Entity-1	Entity-2	Entity-3	Entity-4	Entity-5	Entity-6	Entity-7	Entity-8	Entity-9	Entity-10
PATIENT <input type="checkbox"/>	STAFF <input type="checkbox"/>	NURSE <input type="checkbox"/>	DOCTOR <input type="checkbox"/>	WARDBOY <input type="checkbox"/>	ROOM <input type="checkbox"/>	ICU <input type="checkbox"/>	OPERATING THEATER <input type="checkbox"/>	BILL <input type="checkbox"/>	TREATMENT <input type="checkbox"/>
#PatientID	#StaffID	#NurseID	#DoctorID	#Wardboy	#RoomID	#IcuID	#OTID	#BillID	#TreatmentID
*FirstName	*FirstName	*Shift	*Specialty	*DutyArea	*RoomNumber	*IcuFacilities	*OTFacilities	*TotalAmount	TreatmentDescription
*LastName	*LastName				*RoomType				*StartDate
*PhoneNumber	*PhoneNumber				*AvailabilityStatus				*EndDate
*Address									
*DateOfBirth									
*Disease									
*AdmissionDate									

Matrix Diagram

	PATIENT	DOCTOR(STAFF)	TREATMENT	BILL	STAFF	NURSE(STAFF)	WARDBOY(STAFF)	ROOM	ICU(ROOM)	OPERATIONTHEATER(ROOM)
PATIENT			receive	pay	care by			assign		
DOCTOR			apply							
TREATMENT	received by	applied by								
BILL	paid by									
STAFF	care	include				include	include	maintain		
NURSE					belongs to					
WARDBOY					belongs to					
ROOM	assigned by				maintained by				has	has
ICU(ROOM)								belongs to		
OPERATIONTHEATER(ROOM)								belongs to		





Scenario:

A patient will have a unique Patient ID. Full description about the patient about personal detail and phone number, and then Disease and what treatment is going on. The doctor will handle patients, one doctor can Treat more than 1 patient. Also, each doctor will have a unique ID. Doctor and Patients will be related. Patients can be admitted to the hospital. So different room numbers will be there, also rooms for Operation Theaters and ICU. There are some nurses, and ward boys for the maintenance of the hospital and for patient take care. Based upon the number of days and treatment bill will be generated.

Tables: Patients, Doctors, Treatments, Rooms, OperationTheaters, ICUs, Nurses, WardBoys, Bills.



SQL DDL CODES

<<CREAT>> And <<INSERT>>



STAFF

- CREATE TABLE Staff (
 - StaffID NUMBER PRIMARY KEY,
 - FirstName VARCHAR2(50) NOT NULL,
 - LastName VARCHAR2(50) NOT NULL,
 - PhoneNumber VARCHAR2(15) NOT NULL);



- INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
- VALUES (101, 'Ebu', 'Bekir', '555-2131');
- INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
- VALUES(201, 'Bedirhan', 'Çelik', '555-8765');
- INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
- VALUES(301, 'Burak', 'Yılmaz', '555-9999');
- INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
- VALUES (401,'Erdem','Çoban','555-3131');
- INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
- VALUES(501, 'Ahmet', 'Kan', '555-8564');
- INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
- VALUES(601, 'Mehmet', 'Topal', '555-7834');
-



```
INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
VALUES(701, 'Cagatay', 'Erdogan', '555-7652');
```

```
INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
VALUES (801,'Cemal','Keçeci','555-0963');
```

```
INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
VALUES (901,'Abidin','Genç','555-9632');
```













```
INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
VALUES (1001,'Serdar','Bal','555-8521');
```

```
INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
VALUES (1101,'Yagiz','Yumuşak','555-7412');
```

```
INSERT INTO Staff (StaffID, FirstName, LastName, PhoneNumber)
VALUES (1201,'Poyraz','Sert','555-8523');
```



Column Name	Data Type	Nullable	Default	Primary Key
STAFFID	NUMBER	No	-	1
FIRSTNAME	VARCHAR2(50)	No	-	-
LASTNAME	VARCHAR2(50)	No	-	-
PHONENUMBER	VARCHAR2(15)	No	-	-

STAFF					+ ▼
QueryCount RowsInsert RowLoad Data					
EDIT	STAFFID	FIRSTNAME	LASTNAME	PHONENUMBER	
	401	Erdem	Çoban	555-3131	
	501	Ahmet	Kan	555-8564	
	601	Mehmet	Topal	555-7834	
	101	Ebu	Bekir	555-9999	
	201	Bedirhan	Çelik	555-8765	
	701	Cagatay	Erdogan	555-7652	
	801	Cemal	Keçeci	555-0963	
	901	Abidin	Genç	555-9632	
	301	Burak	Yılmaz	555-9999	
	1001	Serdar	Bal	555-8521	
	1101	Yagiz	Yumuşak	555-7412	
	1201	Poyraz	Sert	555-8523	

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NURSE





- CREATE TABLE Nurse (
 - NurseID NUMBER PRIMARY KEY,
 - Shift VARCHAR2(20) NOT NULL,
 - CONSTRAINT fk_nurse_staff FOREIGN KEY (NurseID) REFERENCES Staff(StaffID)
-);



- INSERT INTO Nurse (NurseID, Shift)
- VALUES (101, 'Day Shift');
- INSERT INTO Nurse (NurseID, Shift)
- VALUES (201, 'Evening Shift');
- INSERT INTO Nurse (NurseID, Shift)
- VALUES (301, 'Evening Shift');
- INSERT INTO Nurse (NurseID, Shift)
- VALUES (401, 'Day Shift');



Column Name	Data Type	Nullable	Default	Primary Key
NURSEID	NUMBER	No	-	1
JOBROTATION	VARCHAR2(20)	No	-	-

EDIT	NURSEID	JOBROTATION
	301	Evening Shift
	401	Day Shift
	101	Day Shift
	201	Evening Shift



WARDBOY





- CREATE TABLE WardBoy (
 - WardBoyID NUMBER PRIMARY KEY,
 - DutyArea VARCHAR2(100) NOT NULL,
 - CONSTRAINT fk_wardboy_staff FOREIGN KEY (WardBoyID) REFERENCES Staff(StaffID)
-);



- INSERT INTO WardBoy (WardBoyID, DutyArea)
- VALUES (501, 'West Wing');
- INSERT INTO WardBoy (WardBoyID, DutyArea)
- VALUES (601, 'North Wing');
- INSERT INTO WardBoy (WardBoyID, DutyArea)
- VALUES (701, 'East Wing');
- INSERT INTO WardBoy (WardBoyID, DutyArea)
- VALUES (801, 'South Wing');



Column Name	Data Type	Nullable	Default	Primary Key
WARDBOYID	NUMBER	No	-	1
DUTYAREA	VARCHAR2(100)	No	-	-

EDIT	WARDBOYID	DUTYAREA
	501	West Wing
	801	South Wing
	701	East Wing
	601	North Wing



ROOMS

- CREATE TABLE Rooms (
 - RoomID NUMBER PRIMARY KEY,
 - RoomNumber NUMBER NOT NULL,
 - RoomType VARCHAR2(50) NOT NULL,
 - AvailabilityStatus VARCHAR2(20) NOT NULL,
 - StaffID NUMBER NOT NULL,
 - CONSTRAINT fk_staff_room FOREIGN KEY (StaffID) REFERENCES Staff(StaffID)
-);



- INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
- VALUES (1, 100, '2-bed', 'Available', 101);
- INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
- VALUES (2, 200, '4-bed', 'Available', 201);
- INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
- VALUES (3, 300, '2-bed', 'Available', 301);
- INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
- VALUES (4, 400, '3-bed', 'Available', 401);
- INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
- VALUES (5, 500, '2-bed', 'Available', 501);



```
INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
VALUES (6, 600, '6-bed', 'Available', 601);

INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
VALUES (7, 700, '1-bed', 'Available', 701);

INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
VALUES (8, 800, '2-bed', 'Available', 801);

INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
VALUES (9, 900, '4-bed', 'Available', 901);

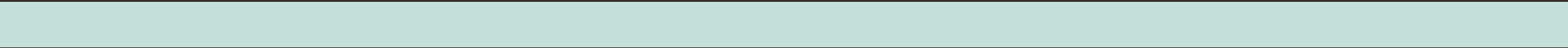
INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
VALUES (10, 1000, '2-bed', 'Available', 1001);













INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
VALUES (11, 1100, '1-bed', 'Available', 1101);

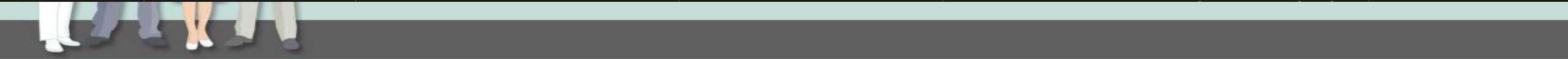
INSERT INTO Rooms (RoomID, RoomNumber, RoomType, AvailabilityStatus, StaffID)
VALUES (12, 1200, '3-bed', 'Available', 1201);
```



Column Name	Data Type	Nullable	Default	Primary Key
ROOMID	NUMBER	No	-	1
ROOMNUMBER	NUMBER	No	-	-
ROOMTYPE	VARCHAR2(50)	No	-	-
AVAILABILITYSTATUS	VARCHAR2(20)	No	-	-
STAFFID	NUMBER	No	-	-



EDIT	ROOMID	ROOMNUMBER	ROOMTYPE	AVAILABILITYSTATUS	STAFFID
	5	500	2-bed	Available	501
	6	600	6-bed	Available	601
	8	800	2-bed	Available	801
	1	100	2-bed	Available	101
	2	200	4-bed	Available	201
	4	400	3-bed	Available	401
	10	1000	2-bed	Available	1001
	12	1200	3-bed	Available	1201
	3	300	2-bed	Available	301
	11	1100	1-bed	Available	1101
	7	700	1-bed	Available	701
	9	900	4-bed	Available	901



ICU







```
CREATE TABLE ICU (  
  
    ICU_ID NUMBER PRIMARY KEY,  
  
    ICUFacilities VARCHAR2(200) NOT NULL,  
  
    CONSTRAINT fk_icu_room FOREIGN KEY (ICU_ID) REFERENCES Rooms(RoomID)  
  
);
```



```
INSERT INTO ICU (ICU_ID, ICUFacilities)
VALUES (1, 'Advanced monitoring equipment');
INSERT INTO ICU (ICU_ID, ICUFacilities)
VALUES (2, 'Advanced monitoring equipment');
INSERT INTO ICU (ICU_ID, ICUFacilities)
VALUES (3, 'Advanced monitoring equipment');
INSERT INTO ICU (ICU_ID, ICUFacilities)
VALUES (4, 'Advanced monitoring equipment');
INSERT INTO ICU (ICU_ID, ICUFacilities)
VALUES (11, 'Advanced monitoring equipment');
INSERT INTO ICU (ICU_ID, ICUFacilities)
VALUES (12, 'Advanced monitoring equipment');
```



Column Name	Data Type	Nullable	Default	Primary Key
ICU_ID	NUMBER	No	-	1
ICUFACILITIES	VARCHAR2(100)	No	-	-

EDIT	ICU_ID	ICUFACILITIES
	1	Advanced monitoring equipment
	2	Advanced monitoring equipment
	4	Advanced monitoring equipment
	12	Advanced monitoring equipment
	3	Advanced monitoring equipment
	11	Advanced monitoring equipment



OPERATION THEATER







```
CREATE TABLE OperationTheater (  
    OperationTheaterID NUMBER PRIMARY KEY,  
    OTFacilities VARCHAR2(200) NOT NULL,  
    CONSTRAINT fk_ot_room FOREIGN KEY (OperationTheaterID) REFERENCES Rooms(RoomID)  
);
```



```
INSERT INTO OperationTheater (OperationTheaterID, OTFacilities)
VALUES (5, 'Surgical equipment');
INSERT INTO OperationTheater (OperationTheaterID, OTFacilities)
VALUES (6, 'Surgical equipment');
INSERT INTO OperationTheater (OperationTheaterID, OTFacilities)
VALUES (7, 'Surgical equipment');
INSERT INTO OperationTheater (OperationTheaterID, OTFacilities)
VALUES (8, 'Surgical equipment');
INSERT INTO OperationTheater (OperationTheaterID, OTFacilities)
VALUES (9, 'Surgical equipment');
INSERT INTO OperationTheater (OperationTheaterID, OTFacilities)
VALUES (10, 'Surgical equipment');
```



Column Name	Data Type	Nullable	Default	Primary Key
OPERATIONTHEATERID	NUMBER	No	-	1
OTFACILITIES	VARCHAR2(200)	No	-	-

EDIT	OPERATIONTHEATERID	OTFACILITIES
	5	Surgical equipment
	9	Surgical equipment
	10	Surgical equipment
	7	Surgical equipment
	8	Surgical equipment
	6	Surgical equipment



DOCTOR

```
CREATE TABLE Doctor (  
    DoctorID NUMBER PRIMARY KEY,  
    Specialty VARCHAR2(50) NOT NULL,  
    CONSTRAINT fk_doctor_staff FOREIGN KEY (DoctorID) REFERENCES Staff(StaffID)  
);
```



```
INSERT INTO Doctor (DoctorID, Specialty)
VALUES (901, 'Urology');
INSERT INTO Doctor (DoctorID, Specialty)
VALUES (1001, 'Anesthesiology');
INSERT INTO Doctor (DoctorID, Specialty)
VALUES (1101, 'Cardiology');
INSERT INTO Doctor (DoctorID, Specialty)
VALUES (1201, 'Family Medicine');
```



Column Name	Data Type	Nullable	Default	Primary Key
DOCTORID	NUMBER	No	-	1
SPECIALTY	VARCHAR2(50)	No	-	-

EDIT	DOCTORID	SPECIALTY
	1101	Cardiology
	901	Urology
	1001	Anesthesiology
	1201	Family Medicine



PATIENT

```
CREATE TABLE Patient (  
    PatientID NUMBER PRIMARY KEY,  
    FirstName VARCHAR2(50) NOT NULL,  
    LastName VARCHAR2(50) NOT NULL,  
    PhoneNumber VARCHAR2(15) NOT NULL,  
    Address VARCHAR2(100) NOT NULL,  
    DateOfBirth DATE NOT NULL,  
    Disease VARCHAR2(100) NOT NULL,  
    AdmissionDate DATE NOT NULL,  
    RoomID NUMBER,  
    NurseID NUMBER,  
    WardBoyID NUMBER,  
    DoctorID NUMBER,  
    CONSTRAINT fk_room FOREIGN KEY (RoomID) REFERENCES Rooms(RoomID),  
    CONSTRAINT fk_nurse FOREIGN KEY (NurseID) REFERENCES Staff(StaffID),  
    CONSTRAINT fk_wardboy FOREIGN KEY (WardBoyID) REFERENCES Staff(StaffID),  
    CONSTRAINT fk_doctor_patient FOREIGN KEY (DoctorID) REFERENCES Doctor(DoctorID)  
);
```



```
INSERT INTO Patient (PatientID, FirstName, LastName, PhoneNumber, Address, DateOfBirth, Disease, AdmissionDate, RoomID, NurseID, WardBoyID, DoctorID)
```

```
VALUES (111, 'Ömer', 'Güler', '555-1234', 'Kadıköy', TO_DATE('1991-01-15', 'YYYY-MM-DD'), 'Flu', TO_DATE('2024-05-01', 'YYYY-MM-DD'), 1, 101, 501, 901);
```

```
INSERT INTO Patient (PatientID, FirstName, LastName, PhoneNumber, Address, DateOfBirth, Disease, AdmissionDate, RoomID, NurseID, WardBoyID, DoctorID)
```

```
VALUES (222, 'Emre', 'Colak', '555-5236', 'Pendik', TO_DATE('1992-02-15', 'YYYY-MM-DD'), 'Stomachache', TO_DATE('2024-05-02', 'YYYY-MM-DD'), 2, 201, 601, 1001);
```

```
INSERT INTO Patient (PatientID, FirstName, LastName, PhoneNumber, Address, DateOfBirth, Disease, AdmissionDate, RoomID, NurseID, WardBoyID, DoctorID)
```





```
VALUES (333, 'Fatih', 'Terim', '555-8675', 'Kartal', TO_DATE('1993-06-15', 'YYYY-MM-DD'), 'Mad', TO_DATE('2024-05-03', 'YYYY-MM-DD'), 3, 301, 701, 1101);
```

```
INSERT INTO Patient (PatientID, FirstName, LastName, PhoneNumber, Address, DateOfBirth, Disease, AdmissionDate, RoomID, NurseID, WardBoyID, DoctorID)
```

```
VALUES (444, 'Sema', 'Oner', '555-6458', 'Karaköy', TO_DATE('1994-05-15', 'YYYY-MM-DD'), 'Fever', TO_DATE('2024-05-04', 'YYYY-MM-DD'), 4, 401, 801, 1201);
```



Column Name		Data Type		Nullable	Default	Primary Key	
PATIENTID		NUMBER		No	-	1	
FIRSTNAME		VARCHAR2(50)		No	-	-	
LASTNAME		VARCHAR2(50)		No	-	-	
PHONENUMBER		VARCHAR2(15)		No	-	-	
ADDRESS		VARCHAR2(100)		No	-	-	
DATEOFBIRTH		DATE		No	-	-	
DISEASE		VARCHAR2(100)		No	-	-	
ADMISSIONDATE		DATE		No	-	-	
ROOMID		NUMBER		Yes	-	-	
NURSEID		NUMBER		Yes	-	-	
WARDBOYID		NUMBER		Yes	-	-	
DOCTORID		NUMBER		Yes	-	-	

EDIT	PATIENTID	FIRSTNAME	LASTNAME	PHONENUMBER	ADDRESS	DATEOFBIRTH	DISEASE	ADMISSIONDATE	ROOMID	NURSEID	WARDBOYID	DOCTORID
	222	Emre	Colak	555-5236	Pendik	15-Feb-1992	Stomachache	02-May-2024	2	201	601	1001
	333	Fatih	Terim	555-8675	Kartal	15-Jun-1993	Mad	03-May-2024	3	301	701	1101
	444	Sema	Oner	555-6458	Karaköy	15-May-1994	Fever	04-May-2024	4	401	801	1201
	111	Ömer	Güler	555-1234	Kadıköy	15-Jan-1991	Flu	01-May-2024	1	101	501	901



TREATMENT

```
CREATE TABLE Treatment (  
TreatmentID NUMBER PRIMARY KEY,  
TreatmentDescription VARCHAR2(200) NOT NULL,  
PatientID NUMBER,  
DoctorID NUMBER,  
StartDate DATE NOT NULL,  
EndDate DATE NOT NULL,  
CONSTRAINT fk_patient FOREIGN KEY (PatientID) REFERENCES Patient(PatientID),  
CONSTRAINT fk_doctor FOREIGN KEY (DoctorID) REFERENCES Doctor(DoctorID)
```




```
INSERT INTO Treatment (TreatmentID, TreatmentDescription, PatientID, DoctorID, StartDate, EndDate)
VALUES (1000, 'Prescribed antibiotics', 111, 901, TO_DATE('2024-05-01', 'YYYY-MM-DD'), TO_DATE('2024-05-05', 'YYYY-MM-DD'));
```





```
INSERT INTO Treatment (TreatmentID, TreatmentDescription, PatientID, DoctorID, StartDate, EndDate)
VALUES (2000, 'Cancer', 222, 1001, TO_DATE('2024-06-01', 'YYYY-MM-DD'), TO_DATE('2024-06-05', 'YYYY-MM-DD'));
```

```
INSERT INTO Treatment (TreatmentID, TreatmentDescription, PatientID, DoctorID, StartDate, EndDate)
VALUES (3000, 'Malaria prophylactic', 333, 1101, TO_DATE('2024-07-01', 'YYYY-MM-DD'), TO_DATE('2024-07-05', 'YYYY-MM-DD'));
```

```
INSERT INTO Treatment (TreatmentID, TreatmentDescription, PatientID, DoctorID, StartDate, EndDate)
VALUES (4000, 'Covid-19', 444, 1201, TO_DATE('2024-08-01', 'YYYY-MM-DD'), TO_DATE('2024-08-05', 'YYYY-MM-DD'));
```



Column Name	Data Type	Nullable	Default	Primary Key
TREATMENTID	NUMBER	No	-	1
TREATMENTDESCRIPTION	VARCHAR2(200)	No	-	-
PATIENTID	NUMBER	Yes	-	-
DOCTORID	NUMBER	Yes	-	-
STARTDATE	DATE	No	-	-
ENDDATE	DATE	No	-	-

EDIT	TREATMENTID	TREATMENTDESCRIPTION	PATIENTID	DOCTORID	STARTDATE	ENDDATE
	4000	Covid-19	444	1201	01-Aug-2024	05-Aug-2024
	3000	Malaria prophylactic	333	1101	01-Jul-2024	05-Jul-2024
	1000	Prescribed antibiotics	111	901	01-May-2024	05-May-2024
	2000	Cancer	222	1001	01-Jun-2024	05-Jun-2024



BILL

CREATE TABLE Bill (

BillID NUMBER PRIMARY KEY,

PatientID NUMBER,

TotalAmount NUMBER NOT NULL,

CONSTRAINT fk_patient_bill FOREIGN KEY (PatientID) REFERENCES Patient(PatientID)

);



```
INSERT INTO Bill (BillID, PatientID, TotalAmount)
VALUES (1111, 111, 500.00);





INSERT INTO Bill (BillID, PatientID, TotalAmount)
VALUES (2222, 222, 600.00);

INSERT INTO Bill (BillID, PatientID, TotalAmount)
VALUES (3333, 333, 700.00);

INSERT INTO Bill (BillID, PatientID, TotalAmount)
VALUES (4444, 444, 800.00);
```



Column Name	Data Type	Nullable	Default	Primary Key
BILLID	NUMBER	No	-	1
PATIENTID	NUMBER	Yes	-	-
TOTALAMOUNT	NUMBER	No	-	-

EDIT	BILLID	PATIENTID	TOTALAMOUNT
	3333	333	700
	4444	444	800
	1111	111	500
	2222	222	600



SQL DML CODES



SUBQUERY

```
1 SELECT firstname,lastname,DoctorID
2 FROM patient
3 WHERE DoctorID=
4 (
5     SELECT DoctorID
6     FROM Doctor
7     WHERE specialty='Cardiology'
8 );
```

Results Explain Describe Saved SQL History

FIRSTNAME	LASTNAME	DOCTORID
Fatih	Terim	1101

1 rows returned in 0.00 seconds Download


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GROUP BY FUNCTION

```
SELECT StaffID, COUNT(*) AS StaffCount
FROM Staff
GROUP BY StaffID;
```

Results		Explain	Describe	Saved SQL	History
STAFFID	STAFFCOUNT				
101	1				
201	1				
301	1				
401	1				
501	1				
601	1				
701	1				
801	1				
901	1				

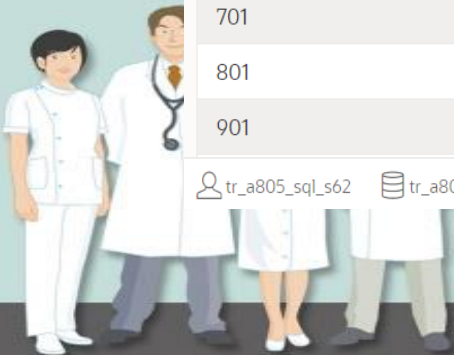
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DATE FUNCTION

```
1  
2 SELECT AVG(EndDate - StartDate) AS AvgTreatmentDuration  
3 FROM Treatment  
4 WHERE TreatmentDescription='Cancer';  
5
```

Results

Explain

Describe

Saved SQL

History

AVGTREATMENTDURATION
4

1 rows returned in 0.00 seconds

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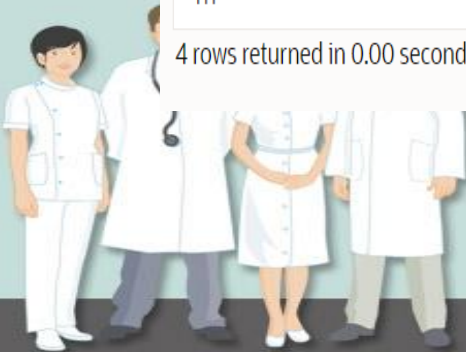
CHARACTER FUNCTION

```
1 SELECT PatientID, FirstName, SUBSTR(FirstName, 1, 2) AS FirstInitial
2 FROM Patient;
3
4
```

Results Explain Describe Saved SQL History			
PATIENTID		FIRSTNAME	FIRSTINITIAL
222		Emre	Em
333		Fatih	Fa
444		Sema	Se
111		Ömer	Öm

4 rows returned in 0.00 seconds [Download](#)

Windows'u Etkinleştir



GROUP BY 2

```
1 SELECT PatientID, Address, LENGTH(Address) AS AddressLength
2 FROM Patient;
3
4
```

Results

Explain

Describe

Saved SQL

History

PATIENTID	ADDRESS	ADDRESSLENGTH
222	Pendik	6
333	Kartal	6
444	Karaköy	7
111	Kadıköy	7

4 rows returned in 0.01 seconds

[Download](#)



UPDATE FUNCTION

```
1
2 UPDATE Staff
3 SET PhoneNumber = '555-9999'
4 WHERE StaffID = 101;
5
6
```

Results













[Explain](#)[Describe](#)[Saved SQL](#)[History](#)

1 row(s) updated.

0.00 seconds

STAFF

[+](#) [-](#)

EDIT	STAFFID	FIRSTNAME	LASTNAME	PHONENUMBER
	401	Erdem	Çoban	555-3131
	501	Ahmet	Kan	555-8564
	601	Mehmet	Topal	555-7834
	101	Ebu	Bekir	555-9999
	201	Bedirhan	Çelik	555-8765
	701	Cagatay	Erdogan	555-7652
	801	Cemal	Keçeci	555-0963
	901	Abidin	Genç	555-9632
	301	Burak	Yılmaz	555-9999
	1001	Serdar	Bal	555-8521
	1101	Yagiz	Yumuşak	555-7412
	1201	Poyraz	Sert	555-8523

Windows'u Etkinleştir
Windows'u etkinleştirmek için Ayarlar'a gidin.



ALTER TABLE FUNCTION

1
2
3
4
5
6

```
ALTER TABLE WardBoy
ADD Gender VARCHAR(10);
```

Results Explain Describe Saved SQL History

Table altered.

WARDBOY

+ -

Table	Data	Indexes	Model	Constraints	Grants	Statistics	UI Defaults	Triggers	Dependencies	SQL	REST	Sample Queries
<div>Add ColumnModify ColumnRename ColumnDrop ColumnRenameCopyDropTruncateCreate Lookup TableCreate App</div>												
Column Name		Data Type		Nullable		Default		Primary Key				
WARDBOYID		NUMBER		No		-		1				
DUTYAREA		VARCHAR2(100)		No		-		-				
GENDER		VARCHAR2(10)		Yes		-		-				

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ALTER TABLE (DROP) FUNCTION

1
2
3
4
5
6

```
ALTER TABLE WARDBOY
DROP COLUMN Gender;
```

Results

ExplainDescribeSaved SQLHistory

Table altered.

0.02 seconds

WARDBOY

+ v

Table

DataIndexesModelConstraintsGrantsStatisticsUI DefaultsTriggersDependenciesSQLRESTSample Queries

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
WARDBOYID	NUMBER	No	-	1
DUTYAREA	VARCHAR2(100)	No	-	-

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ALTER TABLE (RENAME)FUNCTION

```
1
2 ALTER TABLE Nurse
3 RENAME COLUMN Shift TO JobRotation;
4
5
6
```

Results Explain Describe Saved SQL History

Table altered.

0.01 seconds

NURSE

+ -

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL REST Sample Queries

Add Column Modify Column Rename Column Drop Column Rename Copy Drop Truncate Create Lookup Table Create App

Column Name	Data Type	Nullable	Default	Primary Key
NURSEID	NUMBER	No	-	1
JOBROTATION	VARCHAR2(20)	No	-	-

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ALTER TABLE (MODIFY) FUNCTION

```
1
2 ALTER TABLE ICU
3 MODIFY ICUFacilities VARCHAR(100);
4
5
6
```

Results Explain Describe Saved SQL History

Table altered.

0.01 seconds

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL REST Sample Queries

Add Column Modify Column Rename Column Drop Column Rename Copy Drop Truncate Create Lookup Table Create App

Column Name	Data Type	Nullable	Default	Primary Key
ICU_ID	NUMBER	No	-	1
ICUFACILITIES	VARCHAR2(100)	No	-	-

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