

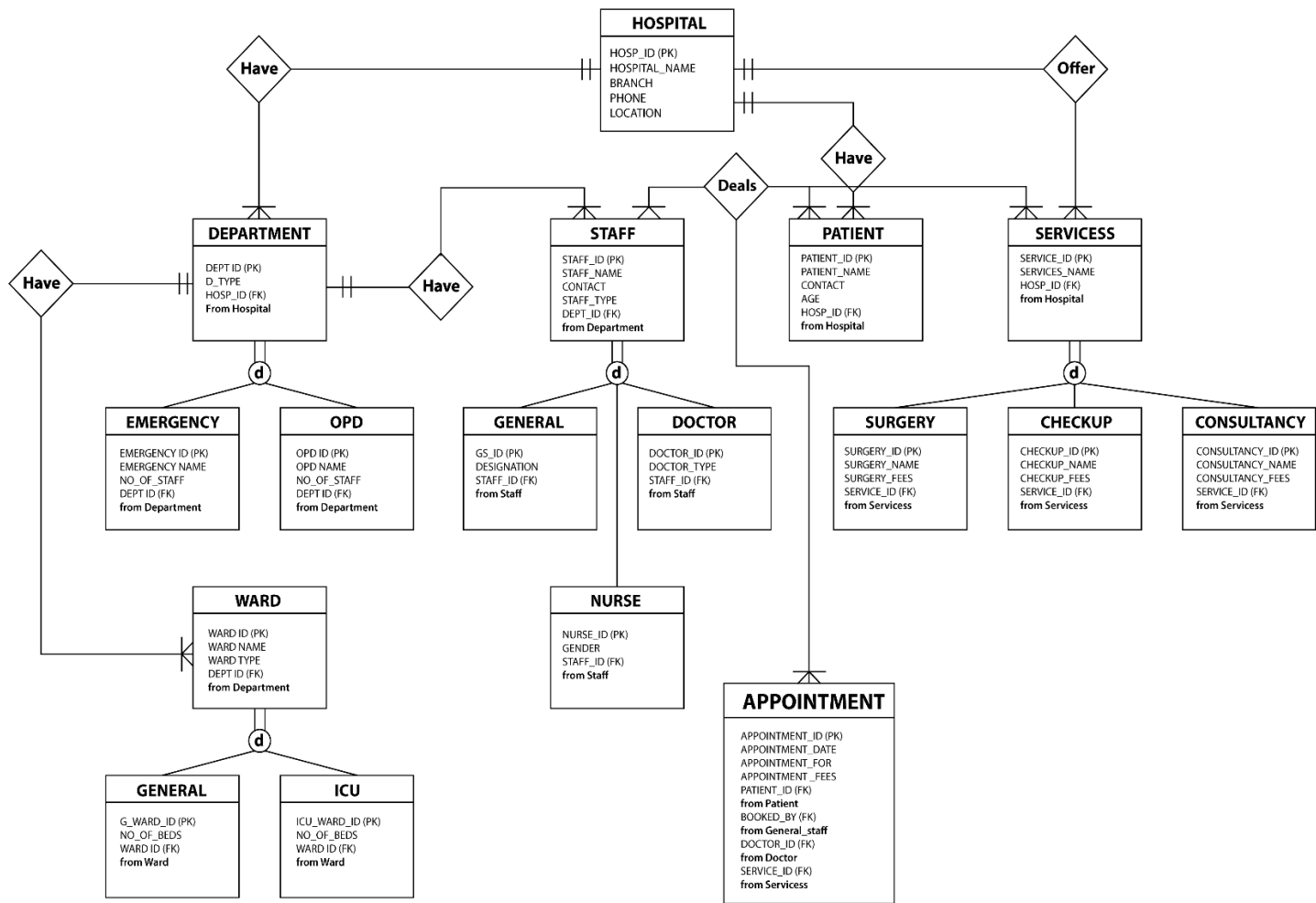
# DBMS PROJECT

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ABDUL AHAD 001, SHEHARYAR MUGHAL 049

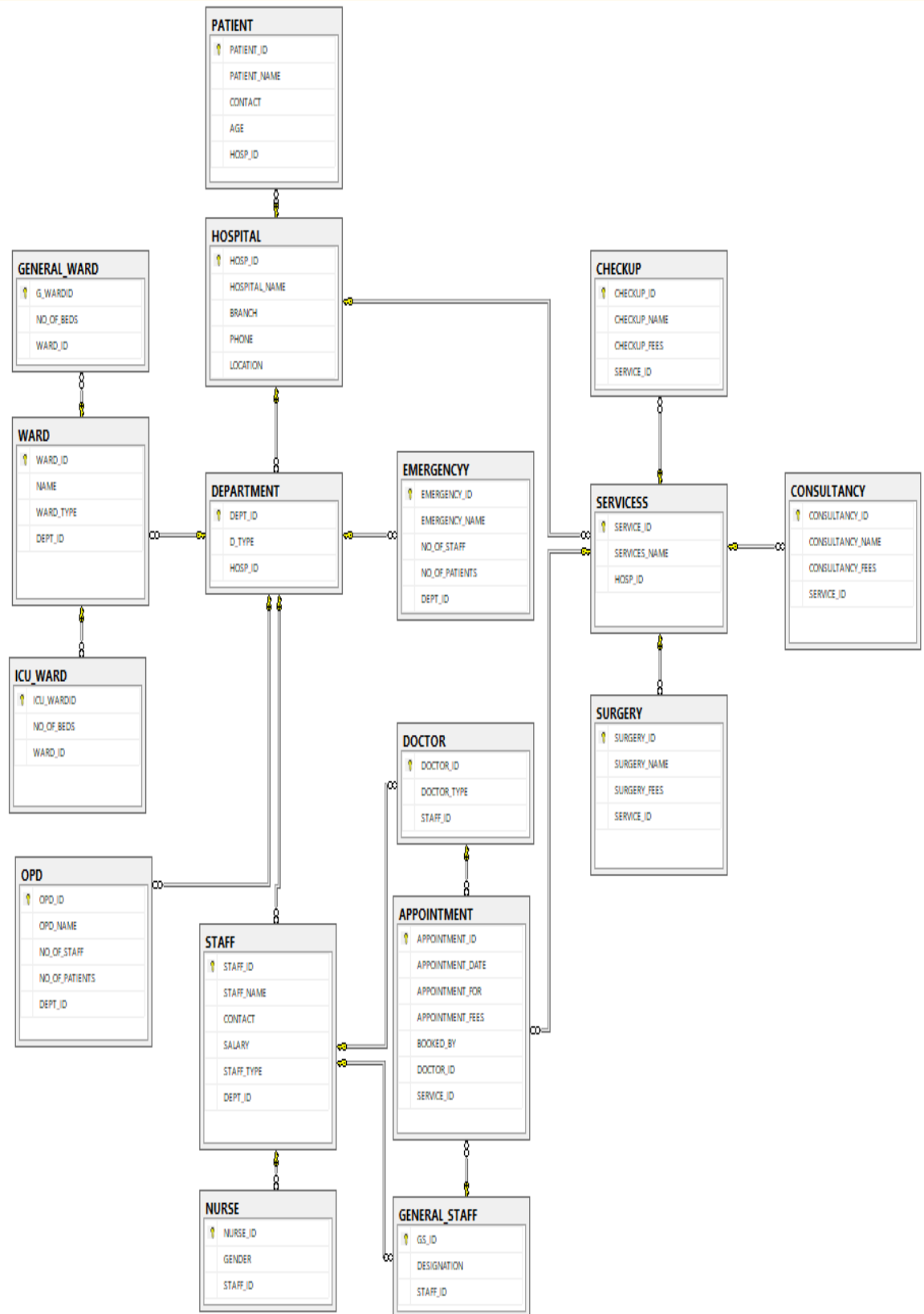
SIR ALI IRFAN (DBMS)  
CSC 220 | BAHRIA UNIBERSITY

EER MODEL:



## RELATIONAL MODEL:

DESKTOP-D2P5K6R.....ABASE - Diagram\_0\* X SQLQuery1.sql - DE...\\Kashif Abbas (54)\*



## CREATE TABLE STATEMENTS:

```

CREATE DATABASE HOSPITAL_DATABASE;

CREATE TABLE HOSPITAL(
HOSP_ID TINYINT PRIMARY KEY NOT NULL,
HOSPITAL_NAME VARCHAR(30) NOT NULL,
BRANCH VARCHAR(30) NOT NULL,
PHONE VARCHAR(11) NOT NULL,
LOCATION VARCHAR(30) NOT NULL,
)

CREATE TABLE DEPARTMENT(
DEPT_ID TINYINT PRIMARY KEY NOT NULL IDENTITY (1,1),
D_TYPE VARCHAR(20) NOT NULL,
HOSP_ID TINYINT NOT NULL,
CONSTRAINT FK_DPT_HOSP FOREIGN KEY(HOSP_ID) REFERENCES HOSPITAL(HOSP_ID)
)

CREATE TABLE STAFF(
STAFF_ID TINYINT NOT NULL PRIMARY KEY IDENTITY (1,1),
STAFF_NAME VARCHAR(30) NOT NULL,
CONTACT VARCHAR(12) NOT NULL,
SALARY MONEY NOT NULL,
STAFF_TYPE VARCHAR(20) NOT NULL,
DEPT_ID TINYINT NOT NULL,
CONSTRAINT FK_STAFF_DPT FOREIGN KEY(DEPT_ID) REFERENCES DEPARTMENT(DEPT_ID)
)

CREATE TABLE GENERAL_STAFF(
GS_ID TINYINT PRIMARY KEY NOT NULL,
DESIGNATION VARCHAR(30),
STAFF_ID TINYINT NOT NULL,
CONSTRAINT FK_GS_STAFF FOREIGN KEY(STAFF_ID) REFERENCES STAFF(STAFF_ID)
)

CREATE TABLE APPOINTMENT(
APPOINTMENT_ID TINYINT PRIMARY KEY NOT NULL IDENTITY(1,1),
APPOINTMENT_DATE DATE NOT NULL,
APPOINTMENT_FOR VARCHAR(30),
APPOINTMENT_FEES MONEY NOT NULL,
BOOKED_BY TINYINT NOT NULL,
CONSTRAINT FK_APT_GENSTF FOREIGN KEY(BOOKED_BY) REFERENCES GENERAL_STAFF(GS_ID),
DOCTOR_ID TINYINT NOT NULL,
CONSTRAINT FK_APT_DOC FOREIGN KEY(DOCTOR_ID) REFERENCES DOCTOR(DOCTOR_ID),
SERVICE_ID TINYINT NOT NULL,
CONSTRAINT FK_APT_SER FOREIGN KEY(SERVICE_ID) REFERENCES SERVICE(SERVICE_ID),
)

```

## Data extraction using joins:

SELECT \* FROM PATIENT FULL OUTER JOIN APPOINTMENT ON PATIENT.PATIENT\_ID=APPOINTMENT.PATIENT\_ID;

PATIENT_ID	PATIENT_NAME	CONTACT	AGE	HOSP_ID	APPOINTMENT_ID	APPOINTMENT_DATE	APPOINTMENT_FOR	APPOINTMENT_FEES	PATIENT_ID	BOOKED_BY	DOCTOR_ID	SERVICE_ID
1	ali imran	03105623891	22	223	1	2023-01-01	SURGERY	10000.00	1	2	3	1
2	sara khan	03211223344	25	223	2	2023-01-02	CHECKUP	5000.00	2	5	1	2
3	amir ali	0344556677	30	223	3	2023-01-03	CONSULTANCY	2500.00	3	2	2	3
4	hina javed	03455667788	28	223	4	2023-01-04	SURGERY	25000.00	4	2	6	1
5	ahmed malik	03166778899	35	223	5	2023-01-05	CHECKUP	2500.00	5	5	4	2
6	zainab aslam	03277889900	40	223	6	2023-01-06	CONSULTANCY	1500.00	6	2	5	3
7	usman ahmed	03388990011	22	223	7	2023-01-07	SURGERY	10000.00	7	2	3	1
8	farah naz	0340001122	27	223	8	2023-01-08	CHECKUP	1000.00	8	5	1	2
9	mohammed salem	0311112233	32	223	9	2023-01-09	CONSULTANCY	800.00	9	2	2	3
10	asma noor	0322223344	26	223	10	2023-01-10	SURGERY	10000.00	10	2	6	1
11	bilal khan	0333334455	29	223	11	2023-01-11	CHECKUP	5000.00	11	5	4	2
12	sadia malik	0344445566	31	223	12	2023-01-12	CONSULTANCY	2500.00	12	2	5	3
13	kamran ali	0315556677	33	223	13	2023-01-13	SURGERY	25000.00	13	2	3	1
14	maria javed	0326667788	37	223	14	2023-01-14	CHECKUP	2500.00	14	5	1	2
15	umar khan	0337778899	24	223	15	2023-01-15	CONSULTANCY	1500.00	15	2	2	3
16	rida aslam	0348889900	36	223	16	2023-01-16	SURGERY	10000.00	16	2	6	1
17	waqar ahmed	0319990011	39	223	17	2023-01-17	CHECKUP	1000.00	17	5	4	2
18	saba naz	0320001122	28	223	18	2023-01-18	CONSULTANCY	800.00	18	2	5	3
19	junaid salem	0331112233	34	223	19	2023-01-19	SURGERY	25000.00	19	2	3	1
20	ali imran	03105623891	22	223	20	2023-01-20	CHECKUP	5000.00	20	5	1	2
21	sara khan	03211223344	25	223	21	2023-01-21	CONSULTANCY	2500.00	21	2	2	3
22	amir ali	0344556677	30	223	22	2023-01-22	SURGERY	25000.00	22	2	6	1
23	hina javed	03455667788	28	223	23	2023-01-23	CHECKUP	2500.00	23	5	4	2
24	ahmed malik	03166778899	35	223	24	2023-01-24	CONSULTANCY	1500.00	24	2	5	3
25	zainab aslam	03277889900	40	223	25	2023-01-25	SURGERY	10000.00	25	2	3	1
26	usman ahmed	03388990011	22	223	26	2023-01-26	CHECKUP	1000.00	26	5	1	2
27	farah naz	0340001122	27	223	27	2023-01-27	CONSULTANCY	800.00	27	2	2	3
28	mohammed salem	0311112233	32	223	28	2023-01-28	SURGERY	25000.00	28	2	6	1
29	asma noor	0322223344	26	223	29	2023-01-29	CHECKUP	5000.00	29	5	4	2
30	bilal khan	0333334455	29	223	30	2023-01-30	CONSULTANCY	2500.00	30	2	5	3
31	sadia malik	0344445566	31	223	31	2023-01-31	SURGERY	25000.00	31	2	3	1
32	kamran ali	0315556677	33	223	32	2023-02-01	CHECKUP	2500.00	32	5	1	2
33	maria javed	0326667788	37	223	33	2023-02-02	CONSULTANCY	1500.00	33	2	2	3
34	umar khan	0337778899	24	223	34	2023-02-03	SURGERY	10000.00	34	2	6	1
35	rida aslam	0348889900	36	223	35	2023-02-04	CHECKUP	1000.00	35	5	4	2
36	waqar ahmed	0319990011	39	223	36	2023-02-05	CONSULTANCY	800.00	36	2	5	3
37	saba naz	0320001122	28	223	37	2023-02-06	SURGERY	25000.00	37	2	3	1
38	junaid salem	0331112233	34	223	38	2023-02-07	CHECKUP	5000.00	38	5	1	2
39	ali imran	03105623891	22	223	39	2023-02-08	CONSULTANCY	2500.00	39	2	2	3
40	sara khan	03211223344	25	223	40	2023-02-09	SURGERY	10000.00	40	2	6	1
41	amir ali	0344556677	30	223	41	2023-02-10	CHECKUP	2500.00	41	5	4	2
42	hina javed	03455667788	28	223	42	2023-02-11	CONSULTANCY	1500.00	42	2	5	3
43	ahmed malik	03166778899	35	223	43	2023-02-12	SURGERY	25000.00	43	2	3	1
44	zainab aslam	03277889900	40	223	44	2023-02-13	CHECKUP	2500.00	44	5	1	2
45	usman ahmed	03388990011	22	223	45	2023-02-14	CONSULTANCY	1500.00	45	2	2	3
46	farah naz	0340001122	27	223	46	2023-02-15	SURGERY	10000.00	46	2	6	1
47	mohammed salem	0311112233	32	223	47	2023-02-16	CHECKUP	1000.00	47	5	4	2
48	asma noor	0322223344	26	223	48	2023-02-17	CONSULTANCY	800.00	48	2	5	3
49	bilal khan	0333334455	29	223	49	2023-02-18	SURGERY	25000.00	49	2	3	1
50	sadia malik	0344445566	31	223	50	2023-02-19	CHECKUP	2500.00	50	5	1	2
51	kamran ali	0315556677	33	223	51	2023-02-20	CONSULTANCY	1500.00	51	2	2	3
52	maria javed	0326667788	37	223	52	2023-02-21	SURGERY	10000.00	52	2	6	1
53	umar khan	0337778899	24	223	53	2023-02-22	CHECKUP	1000.00	53	5	4	2
54	rida aslam	0348889900	36	223	54	2023-02-23	CONSULTANCY	800.00	54	2	5	3
55	waqar ahmed	0319990011	39	223	55	2023-02-24	SURGERY	25000.00	55	2	3	1
56	saba naz	0320001122	28	223	56	2023-02-25	CHECKUP	5000.00	56	5	1	2
57	junaid salem	0331112233	34	223	57	2023-02-26	CONSULTANCY	1500.00	57	2	2	3
58	ali imran	03105623891	22	223	58	2023-02-27	SURGERY	10000.00	58	2	6	1
59	sara khan	03211223344	25	223	59	2023-02-28	CHECKUP	2500.00	59	5	4	2
60	amir ali	0344556677	30	223	60	2023-02-29	CONSULTANCY	1500.00	60	2	5	3
61	hina javed	03455667788	28	223	61	2023-03-01	SURGERY	25000.00	61	2	3	1
62	ahmed malik	03166778899	35	223	62	2023-03-02	CHECKUP	2500.00	62	5	1	2
63	zainab aslam	03277889900	40	223	63	2023-03-03	CONSULTANCY	1500.00	63	2	2	3
64	usman ahmed	03388990011	22	223	64	2023-03-04	SURGERY	10000.00	64	2	6	1
65	farah naz	0340001122	27	223	65	2023-03-05	CHECKUP	1000.00	65	5	4	2
66	mohammed salem	0311112233	32	223	66	2023-03-06	CONSULTANCY	800.00	66	2	5	3
67	asma noor	0322223344	26	223	67	2023-03-07	SURGERY	25000.00	67	2	3	1
68	bilal khan	0333334455	29	223	68	2023-03-08	CHECKUP	5000.00	68	5	1	2
69	sadia malik	0344445566	31	223	69	2023-03-09	CONSULTANCY	2500.00	69	2	2	3
70	kamran ali	0315556677	33	223	70	2023-03-10	SURGERY	25000.00	70	2	6	1
71	maria javed	0326667788	37	223	71	2023-03-11	CHECKUP	2500.00	71	5	4	2
72	umar khan	0337778899	24	223	72	2023-03-12	CONSULTANCY	1500.00	72	2	5	3
73	rida aslam	0348889900	36	223	73	2023-03-13	SURGERY	10000.00	73	2	6	1
74	waqar ahmed	0319990011	39	223	74	2023-03-14	CHECKUP	1000.00	74	5	4	2
75	saba naz	0320001122	28	223	75	2023-03-15	CONSULTANCY	800.00	75	2	5	3
76	junaid salem	0331112233	34	223	76	2023-03-16	SURGERY	25000.00	76	2	3	1
77	ali imran	03105623891	22	223	77	2023-03-17	CHECKUP	2500.00	77	5	1	2
78	sara khan	03211223344	25	223	78	2023-03-18	CONSULTANCY	1500.00	78	2	2	3
79	amir ali	0344556677	30	223	79	2023-03-19	SURGERY	10000.00	79	2	6	1
80	hina javed	03455667788	28	223	80	2023-03-20	CHECKUP	2500.00	80	5	4	2
81	ahmed malik	03166778899	35	223	81	2023-03-21	CONSULTANCY	1500.00	81	2	5	3
82	zainab aslam	03277889900	40	223	82	2023-03-22	SURGERY	25000.00	82	2	3	1
83	usman ahmed	03388990011	22	223	83	2023-03-23	CHECKUP	1000.00	83	5	1	2
84	farah naz	0340001122	27	223	84	2023-03-24	CONSULTANCY	800.00	84	2	2	3
85	mohammed salem	0311112233	32	223	85	2023-03-25	SURGERY	25000.00	85	2	6	1
86	asma noor	0322223344	26	223	86	2023-03-26	CHECKUP	5000.00	86	5	4	2
87	bilal khan	0333334455	29	223	87	2023-03-27	CONSULTANCY	2500.00	87	2	5	3
88	sadia malik	0344445566	31	223	88	2023-03-28	SURGERY	25000.00	88	2	3	1
89	kamran ali	0315556677	33	223	89	2023-03-29	CHECKUP	2500.00	89	5	1	2
90	maria javed	0326667788	37	223	90	2023-03-30	CONSULTANCY	1500.00	90	2	2	3
91	umar khan	0337778899	24	223	91	2023-03-31	SURGERY	10000.00	91	2	6	1
92	rida aslam	0348889900	36	223	92	2023-04-01	CHECKUP	1000.00	92	5	4	2
93	waqar ahmed	0319990011	39	223	93	2023-04-02	CONSULTANCY	800.00	93	2	5	3
94	saba naz	0320001122	28	223	94	2023-04-03	SURGERY	25000.00	94	2	3	1
95	junaid salem	0331112233	34	223	95	2023-04-04	CHECKUP	5000.00	95	5	1	2
96	ali imran	03105623891	22	223	96	2023-04-05	CONSULTANCY	1500.00	96	2	2	3
97	sara khan	03211223344	25	223	97	2023-04-06	SURGERY	10000.00	97	2	6	1
98	amir ali	0344556677	30	223	98	2023-04-07	CHECKUP	2500.00	98	5	4	2
99	hina javed	03455667788	28	223	99	2023-04-08						

SELECT \* FROM DEPARTMENT FULL OUTER JOIN STAFF ON DEPARTMENT.DEPT\_ID=STAFF.DEPT\_ID;

110 %

Results Messages

DEPT_ID	D_TYPE	HOSP_ID	STAFF_ID	STAFF_NAME	CONTACT	SALARY	STAFF_TYPE	DEPT_ID
1	EMERGENCY	223	1	abdul ahad	03335178894	10000.00	DOCTOR	1
2	EMERGENCY	223	2	abdullah khan	03337889124	25000.00	GENERAL	1
3	EMERGENCY	223	3	abdul ahad	03335178894	10000.00	NURSE	1
4	EMERGENCY	223	7	emma jones	03445566666	80000.00	DOCTOR	1
5	EMERGENCY	223	8	mohd ahmed	03219998888	45000.00	GENERAL	1
6	EMERGENCY	223	9	amanda brown	03336669999	70000.00	NURSE	1
7	EMERGENCY	223	13	natalie wilson	03221114444	65000.00	DOCTOR	1
8	EMERGENCY	223	14	michael clark	03446668888	75000.00	GENERAL	1
9	EMERGENCY	223	15	olivia taylor	03158889999	50000.00	NURSE	1
10	OPD	223	4	john doe	03339991234	50000.00	DOCTOR	2
11	OPD	223	5	sara smith	03228887777	75000.00	GENERAL	2
12	OPD	223	6	ali khan	03141112233	60000.00	NURSE	2
13	OPD	223	10	david miller	03150001111	55000.00	DOCTOR	2
14	OPD	223	11	tainab ali	03442223333	90000.00	GENERAL	2
15	OPD	223	12	jason white	03337774444	60000.00	NURSE	2
16	OPD	223	16	alexander brown	03334441111	85000.00	DOCTOR	2
17	OPD	223	17	sophia johnson	03247778888	70000.00	GENERAL	2
18	OPD	223	18	benjamin jackson	03443332222	60000.00	NURSE	2

Query executed successfully.

DESKTOP-D2P5K6R (12.0 SP1) | DESKTOP-D2P5K6R\Kashif... | HOSPITAL\_DATABASE | 00:00:00 | 18 rows

Display name DESKTOP-D2P5K6R  
Login name DESKTOP-D2P5K6R\Kas  
Server name DESKTOP-D2P5K6R  
Server version 12.0.4237  
Session Tracing ID  
SPID 54

Name  
The name of the connection.

SELECT \* FROM APPOINTMENT FULL OUTER JOIN SERVICESS ON APPOINTMENT.SERVICE\_ID=SERVICESS.SERVICE\_ID;

110 %

Results Messages

APPOINTMENT_ID	APPOINTMENT_DATE	APPOINTMENT_FOR	APPOINTMENT_FEES	PATIENT_ID	BOOKED_BY	DOCTOR_ID	SERVICE_ID	SERVICE_ID	SERVICES_NAME	HOSP_ID
1	2023-01-01	SURGERY	10000.00	1	2	3	1	1	SURGERY	223
2	2023-01-02	CHECKUP	5000.00	2	5	1	2	2	CHECKUP	223
3	2023-01-03	CONSULTANCY	2500.00	3	2	2	3	3	CONSULTANCY	223
4	2023-01-04	SURGERY	25000.00	4	2	6	1	1	SURGERY	223
5	2023-01-05	CHECKUP	2500.00	5	5	4	2	2	CHECKUP	223
6	2023-01-06	CONSULTANCY	1500.00	6	2	5	3	3	CONSULTANCY	223
7	2023-01-07	SURGERY	10000.00	7	2	3	1	1	SURGERY	223
8	2023-01-08	CHECKUP	1000.00	8	5	1	2	2	CHECKUP	223
9	2023-01-09	CONSULTANCY	800.00	9	2	2	3	3	CONSULTANCY	223
10	2023-01-10	SURGERY	100000.00	10	2	6	1	1	SURGERY	223
11	2023-01-11	CHECKUP	5000.00	11	5	4	2	2	CHECKUP	223
12	2023-01-12	CONSULTANCY	2500.00	12	2	5	3	3	CONSULTANCY	223
13	2023-01-13	SURGERY	25000.00	13	2	3	1	1	SURGERY	223
14	2023-01-14	CHECKUP	2500.00	14	5	1	2	2	CHECKUP	223
15	2023-01-15	CONSULTANCY	1500.00	15	2	2	3	3	CONSULTANCY	223
16	2023-01-16	SURGERY	10000.00	16	2	6	1	1	SURGERY	223
17	2023-01-17	CHECKUP	1000.00	17	5	4	2	2	CHECKUP	223
18	2023-01-18	CONSULTANCY	800.00	18	2	5	3	3	CONSULTANCY	223

Query executed successfully.

DESKTOP-D2P5K6R (12.0 SP1) | DESKTOP-D2P5K6R\Kashif... | HOSPITAL\_DATABASE | 00:00:00 | 18 rows

Display name DESKTOP-D2P5K6R  
Login name DESKTOP-D2P5K6R\Kas  
Server name DESKTOP-D2P5K6R  
Server version 12.0.4237  
Session Tracing ID  
SPID 54

Name  
The name of the connection.

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