

```
select * from patient;
select * from ahp;
select * from hcw;
select * from doctor;
select * from lab_tech;
select * from nurse;
select * from diagnosis_codes;
select * from test_codes;
select * from procedure_codes;
select * from med_codes;
select * from anti_cancer_drugs;
select * from pt_procedure;
select * from pt_admission;
select * from pt_test;
select * from other_meds;
select * from pain_meds;
select * from pt_meds;
select * from vaccines;
select * from infection_meds;
select * from pt_diagnosis;
```

-- admission summary of 1 Ray Holt

```
INSERT INTO pt_admission (ADMISSION_ID,
PATIENT_ID,ADMITTING_HCW_ID,ADMISSION_DATE,DISCHARGE_DATE,
STAY_DURATION,ROOM_NUM,BILL_AMOUNT)
VALUES (admission_seq.nextval,
(SELECT patient.patient_id FROM patient WHERE patient.pt_last_name = 'Holt'),
1, TO_DATE ('01/20/2021' , 'mm/dd/yyyy'),
TO_DATE ('01/28/2021' , 'mm/dd/yyyy'), 8, 1104, 15238.23);
```

```
Insert into pt_diagnosis (PT_DIAGNOSIS_ID,ADMISSION_ID,
```

```
DIAGNOSIS_ID,DIAGNOSING_DR_ID,DIAGNOSIS_NOTES)
```

```
VALUES (pt_diagnosis_seq.nextval,
```

```
admission_seq.currval,5,1,'Admit for chemotherapy' );
```

```
INSERT INTO pt_test (PT_TEST_ID, ADMISSION_ID,
```

```
TEST_ID, TEST_DATE, TEST_RESULT_DATE, TEST_RESULT_SUMMARY)
```

```
VALUES (pt_test_seq.nextval, admission_seq.currval, 9,
```

```
TO_DATE ('01/20/2021' , 'mm/dd/yyyy'), TO_DATE ('01/22/2021' , 'mm/dd/yyyy'),
```

```
'Pancreatic growth, advise biopsy');
```

```
INSERT INTO pt_meds (PT_MED_ID, ADMISSION_ID, MED_ID, DOSAGE,
```

```
FREQUENCY, INSTRUCTIONS, PRECAUTIONS)
```

```
VALUES (pt_med_seq.nextval, admission_seq.currval, 8, '1gm/m2',
```

```
'Once weekly for 4 weeks', 'CBC monitoring', NULL);
```

```
INSERT INTO pt_procedure (PT_PROCEDURE_ID, ADMISSION_ID,
```

```
PROCEDURE_ID, PROCEDURE_DATE, PROCEDURE_RESULT_DATE, PROCEDURE_SUMMARY)
```

```
VALUES (pt_procedure_seq.nextval, admission_seq.currval, 3,
```

```
TO_DATE ('01/20/2021' , 'mm/dd/yyyy'), TO_DATE ('01/21/2021' , 'mm/dd/yyyy'),
```

```
'Advise MRI');
```

```
-- admission summary of Amy Fowler
```

```
INSERT INTO pt_admission (ADMISSION_ID,
```

```
PATIENT_ID,ADMITTING_HCW_ID,ADMISSION_DATE,DISCHARGE_DATE,
```

```
STAY_DURATION,ROOM_NUM,BILL_AMOUNT)
```

```
VALUES (admission_seq.nextval,
```

```
(SELECT patient.patient_id FROM patient WHERE patient.pt_phone = '111112222'), 1,
```

```
TO_DATE ('03/16/2022' , 'mm/dd/yyyy'), TO_DATE ('03/19/2022' , 'mm/dd/yyyy'),
```

```
3, 301, 3248.52);
```

```
Insert into pt_diagnosis (PT_DIAGNOSIS_ID,ADMISSION_ID,
DIAGNOSIS_ID,DIAGNOSING_DR_ID,DIAGNOSIS_NOTES)
VALUES (pt_diagnosis_seq.nextval,
admission_seq.currval,4,1,'Stomach infection' );
```

```
INSERT INTO pt_test (PT_TEST_ID, ADMISSION_ID,
TEST_ID, TEST_DATE, TEST_RESULT_DATE, TEST_RESULT_SUMMARY)
VALUES (pt_test_seq.nextval, admission_seq.currval, 3,
TO_DATE ('03/16/2022' , 'mm/dd/yyyy'), TO_DATE ('03/17/2022' , 'mm/dd/yyyy'),
'WBC count high, infection likely');
```

```
INSERT INTO pt_meds (PT_MED_ID, ADMISSION_ID, MED_ID, DOSAGE,
FREQUENCY, INSTRUCTIONS, PRECAUTIONS)
VALUES (pt_med_seq.nextval, admission_seq.currval, 5, '500mg',
'Twice a day for 3 days',NULL, NULL);
```

```
INSERT INTO pt_meds (PT_MED_ID, ADMISSION_ID, MED_ID, DOSAGE,
FREQUENCY, INSTRUCTIONS, PRECAUTIONS)
VALUES (pt_med_seq.nextval, admission_seq.currval, 9, '150mg',
'Once a day for 3 days', 'Take before breakfast', NULL);
```

```
INSERT INTO pt_procedure (PT_PROCEDURE_ID, ADMISSION_ID,
PROCEDURE_ID, PROCEDURE_DATE, PROCEDURE_RESULT_DATE, PROCEDURE_SUMMARY)
VALUES (pt_procedure_seq.nextval, admission_seq.currval, 3,
TO_DATE ('03/16/2022' , 'mm/dd/yyyy'), TO_DATE ('03/18/2022' , 'mm/dd/yyyy'),
'No relevant findings');
```

-- admission summary 2 of Ray Holt

```
INSERT INTO pt_admission (ADMISSION_ID,
PATIENT_ID,ADMITTING_HCW_ID,ADMISSION_DATE,DISCHARGE_DATE,
```

```
STAY_DURATION,ROOM_NUM,BILL_AMOUNT)
VALUES (admission_seq.nextval,
(SELECT patient.patient_id FROM patient WHERE patient.pt_phone = 1234567890),
1, TO_DATE ('08/26/2021' , 'mm/dd/yyyy'),
TO_DATE ('09/02/2021' , 'mm/dd/yyyy'), 6, 1003, 7836.15);
```

```
Insert into pt_diagnosis (PT_DIAGNOSIS_ID,ADMISSION_ID,
DIAGNOSIS_ID,DIAGNOSING_DR_ID,DIAGNOSIS_NOTES)
VALUES (pt_diagnosis_seq.nextval,
admission_seq.currval,5,1,'Admit for chemotherapy' );
```

```
INSERT INTO pt_test (PT_TEST_ID, ADMISSION_ID,
TEST_ID, TEST_DATE, TEST_RESULT_DATE, TEST_RESULT_SUMMARY)
VALUES (pt_test_seq.nextval, admission_seq.currval, 9,
TO_DATE ('08/26/2021' , 'mm/dd/yyyy'), TO_DATE ('08/28/2021' , 'mm/dd/yyyy'),
'Pancreatic growth');
```

```
INSERT INTO pt_meds (PT_MED_ID, ADMISSION_ID, MED_ID, DOSAGE,
FREQUENCY, INSTRUCTIONS, PRECAUTIONS)
VALUES (pt_med_seq.nextval, admission_seq.currval, 8, '1gm/m2',
'Once weekly for 4 weeks', 'CBC monitoring', NULL);
```

```
INSERT INTO pt_procedure (PT_PROCEDURE_ID, ADMISSION_ID,
PROCEDURE_ID, PROCEDURE_DATE, PROCEDURE_RESULT_DATE, PROCEDURE_SUMMARY)
VALUES (pt_procedure_seq.nextval, admission_seq.currval, 3,
TO_DATE ('08/27/2021' , 'mm/dd/yyyy'), TO_DATE ('08/28/2021' , 'mm/dd/yyyy'),
'Blockage significantly reduced');
```

--First query : Admission summary of Amy's admission from her phone number

-- Joins six tables

```

SELECT CAST (stay_duration || ' days' AS VARCHAR (8)),
test_result_summary, diagnosis_description,
drug_name, dosage, frequency
FROM pt_admission JOIN patient ON patient.patient_ID = pt_admission.patient_ID
JOIN pt_test ON pt_admission.admission_ID = pt_test.admission_id
JOIN pt_diagnosis ON pt_admission.admission_ID = pt_diagnosis.admission_id
JOIN diagnosis_codes ON diagnosis_codes.diagnosis_id = pt_diagnosis.diagnosis_id
JOIN pt_meds ON pt_admission.admission_ID = pt_meds.admission_id
JOIN med_codes ON med_codes.med_id = pt_meds.med_id

WHERE pt_phone = 111112222 ;

```

-- Second query : Retrieve details of HCW by their departments

```

Select COUNT (HCW_ID), hcw.hcw_department from HCW
Group by hcw.hcw_department;

```

```

SELECT hcw_first_name, hcw_last_name, hcw_phone, AHP_license_cert, ahp_title
FROM HCW JOIN AHP ON AHP.hcw_id = hcw.hcw_id
WHERE hcw.hcw_department = 'Surgery';

```

```

SELECT hcw_first_name, hcw_last_name, hcw_phone FROM HCW
WHERE hcw.hcw_department = 'Medicine';

```

--Third query – ‘admission_details’ view for admission events summary

```

--Third query – ‘admission_details’ view for admission events summary
CREATE OR REPLACE VIEW admission_details AS
SELECT pt_admission.admission_id, pt_first_name, pt_last_name,
pt_address, room_num, admission_date,
CAST (pt_admission.stay_duration || ' days' AS VARCHAR(8))

```

```
AS Stay_duration, diagnosis_description,  
drug_name, dosage, frequency, TO_CHAR (bill_amount , '$99999.99')AS Final_amt
```

```
FROM pt_admission JOIN patient ON patient.patient_ID = pt_admission.patient_ID  
JOIN pt_test ON pt_admission.admission_ID = pt_test.admission_id  
JOIN pt_diagnosis ON pt_admission.admission_ID = pt_diagnosis.admission_id  
JOIN diagnosis_codes ON diagnosis_codes.diagnosis_id = pt_diagnosis.diagnosis_id  
JOIN pt_meds ON pt_admission.admission_ID = pt_meds.admission_id  
JOIN med_codes ON med_codes.med_id = pt_meds.med_id;  
select * from admission_details;
```

```
select * from admission_details  
WHERE admission_date = TO_DATE ('08/26/2021' , 'mm/dd/yyyy');
```

--Index Creation

```
CREATE UNIQUE INDEX PtPhoneIDX  
ON Patient (pt_phone);
```

```
CREATE UNIQUE INDEX HCWPhoneIDX  
ON HCW (hcw_phone);
```

```
CREATE INDEX RoomNumIDX  
ON Pt_admission (Room_num);
```

```
CREATE INDEX DateAdmitIDX  
ON Pt_admission (admission_date);
```

```
CREATE INDEX DateDischargeIDX  
ON Pt_admission (discharge_date);
```

```
CREATE INDEX HCWDeptIDX  
ON HCW (hgw_department);
```