

--creating history table and sequence

```
Create table Test_price_change(  
tsprice_change_id DECIMAL (12) NOT NULL PRIMARY KEY,  
old_tsprice DECIMAL (7,2) NOT NULL,  
new_tsprice DECIMAL (7,2) NOT NULL,  
test_id DECIMAL (12) NOT NULL,  
tsprice_change_date DATE NOT NULL,  
CONSTRAINT ts_price_fk FOREIGN KEY (test_ID)  
REFERENCES Test_codes(test_id));
```

```
CREATE SEQUENCE ts_price_seq START WITH 1;
```

--creating trigger

```
CREATE OR REPLACE TRIGGER ts_price_trigger  
BEFORE UPDATE OF test_price ON test_codes  
FOR EACH ROW  
BEGIN  
    INSERT INTO test_price_change (tsprice_change_id ,  
old_tsprice,new_tsprice ,test_id ,tsprice_change_date)  
  
VALUES (ts_price_seq.nextval,  
:OLD.test_price,  
:NEW.test_price,  
:NEW.test_id,  
trunc(sysdate));  
  
END;
```

-- changing values

```
UPDATE test_codes
SET test_codes.test_price = 25
WHERE test_codes.test_id =1;
```

```
UPDATE test_codes
SET test_codes.test_price = 65
WHERE test_codes.test_id =3;
```

```
UPDATE test_codes
SET test_codes.test_price = 2400
WHERE test_codes.test_id =5;
```

```
select * from Test_price_change;
```

--Query for data visualisation 3 - Bill amount with stay duration

```
SELECT CAST (stay_duration || ' days' AS VARCHAR (8)) ,
TO_CHAR (bill_amount, '$99999.99')
FROM Pt_admission;
```

-- Query for data visualisation 2 admissions by year

```
SELECT CASE
    WHEN pt_admission.admission_date > TO_DATE ('01/01/2021' , 'mm/dd/yyyy')
    AND pt_admission.admission_date < TO_DATE ('12/31/2021' , 'mm/dd/yyyy')
    THEN '2021'
    WHEN pt_admission.admission_date > TO_DATE ('01/01/2022' , 'mm/dd/yyyy')
    AND pt_admission.admission_date < TO_DATE ('12/31/2022' , 'mm/dd/yyyy')
```

```

    THEN '2022'

    ELSE '2023'

    END AS calendar_year,

    COUNT (*) AS num_admissions

FROM pt_admission

WHERE pt_admission.admission_date > TO_DATE ('01/01/2020' , 'mm/dd/yyyy')

GROUP BY CASE

    WHEN pt_admission.admission_date > TO_DATE ('01/01/2021' , 'mm/dd/yyyy')

    AND pt_admission.admission_date < TO_DATE ('12/31/2021' , 'mm/dd/yyyy')

    THEN '2021'

    WHEN pt_admission.admission_date > TO_DATE ('01/01/2022' , 'mm/dd/yyyy')

    AND pt_admission.admission_date < TO_DATE ('12/31/2022' , 'mm/dd/yyyy')

    THEN '2022'

    ELSE '2023'

    END;

```

```

--Query for data visualisation 3 - drugs given to patients by count
-- how many times a drug is prescribed for in patients

```

```

SELECT med_codes.drug_name, med_ct.drug_ct FROM

(select pt_meds.med_id, count(pt_meds.med_id) as drug_ct from med_codes

JOIN pt_meds ON pt_meds.med_id = med_codes.med_id

group by pt_meds.med_id) med_ct

JOIN med_codes ON med_codes.med_id = med_ct.med_id

Order by med_ct.drug_ct;

```