--1. create below tables and insert, update and delete some resords from it.
--Table name : prod_categ_dtls

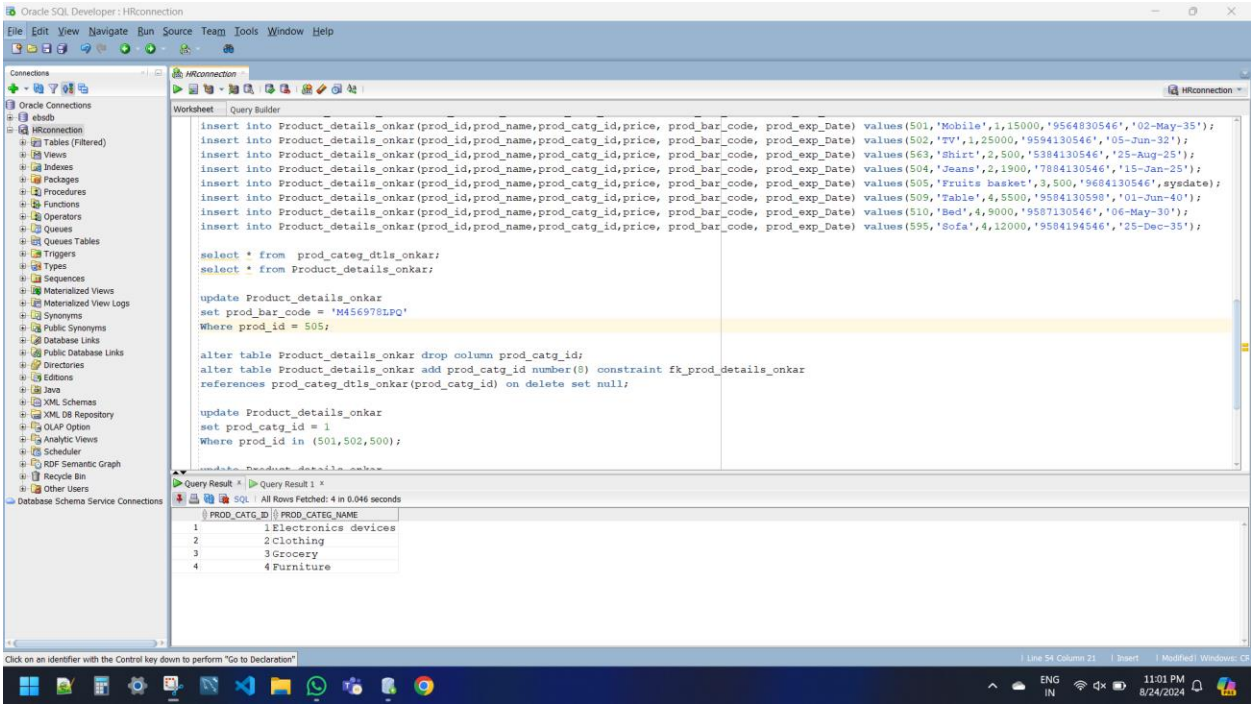
--column name	data_type	constraint_type
--prod_catg_id	number	PK
--prod_categ_name	varchar	not null

--Table_name : Prodct_details

--column name	data_type	constraint_type
--prod_id	number	PK
--prod_name	varchar	not null
--prod_catg_id	number	FK
--Price	number(8,2)	check
--prod_bar_code	varchar	unique
--prod_exp_Date	date	check
--prod_mnft_loc	varchar	default 'Mumbai'

Answer :

```
create table prod_categ_dtls_onkar(

prod_catg_id number(8) constraint pk_prod_categ_onkar primary key,

prod_categ_name varchar2(20) constraint prod_categ_name_onkar not null

);


insert into prod_categ_dtls_onkar values(1,'Electronics devices');

insert into prod_categ_dtls_onkar values(2,'Clothing');

insert into prod_categ_dtls_onkar values(3,'Grocery');

insert into prod_categ_dtls_onkar values(4,'Furniture');
```



create table Product_details_onkar(

prod_id number(8) constraint pk_prod_details_onkar primary key,

prod_name varchar2(20) constraint prod_details_name_onkar not null,

prod_catg_id number(8) constraint fk_prod_details_onkar references prod_categ_dtls_onkar(prod_catg_id) on delete set null,

price number(8,2) constraint price_prod_details_onkar check(price>0),

prod_bar_code varchar2(30) constraint barcode_prod_details_onkar UNIQUE,

prod_exp_Date date constraint exp_date_prod_details_onkar check(to_Char(prod_exp_Date,'DD-MON-YY') is not null),

prod_mnft_loc varchar2(20) default 'Mumbai'

);

insert into Product_details_onkar(prod_id,prod_name,prod_catg_id,price, prod_bar_code, prod_exp_Date) values(500,'Laptop',1,55000,'9584130546','25-Jun-30');

insert into Product_details_onkar(prod_id,prod_name,prod_catg_id,price, prod_bar_code, prod_exp_Date) values(501,'Mobile',1,15000,'9564830546','02-May-35');

insert into Product_details_onkar(prod_id,prod_name,prod_catg_id,price, prod_bar_code, prod_exp_Date) values(502,'TV',1,25000,'9594130546','05-Jun-32');

insert into Product_details_onkar(prod_id,prod_name,prod_catg_id,price, prod_bar_code, prod_exp_Date) values(563,'Shirt',2,500,'5384130546','25-Aug-25');

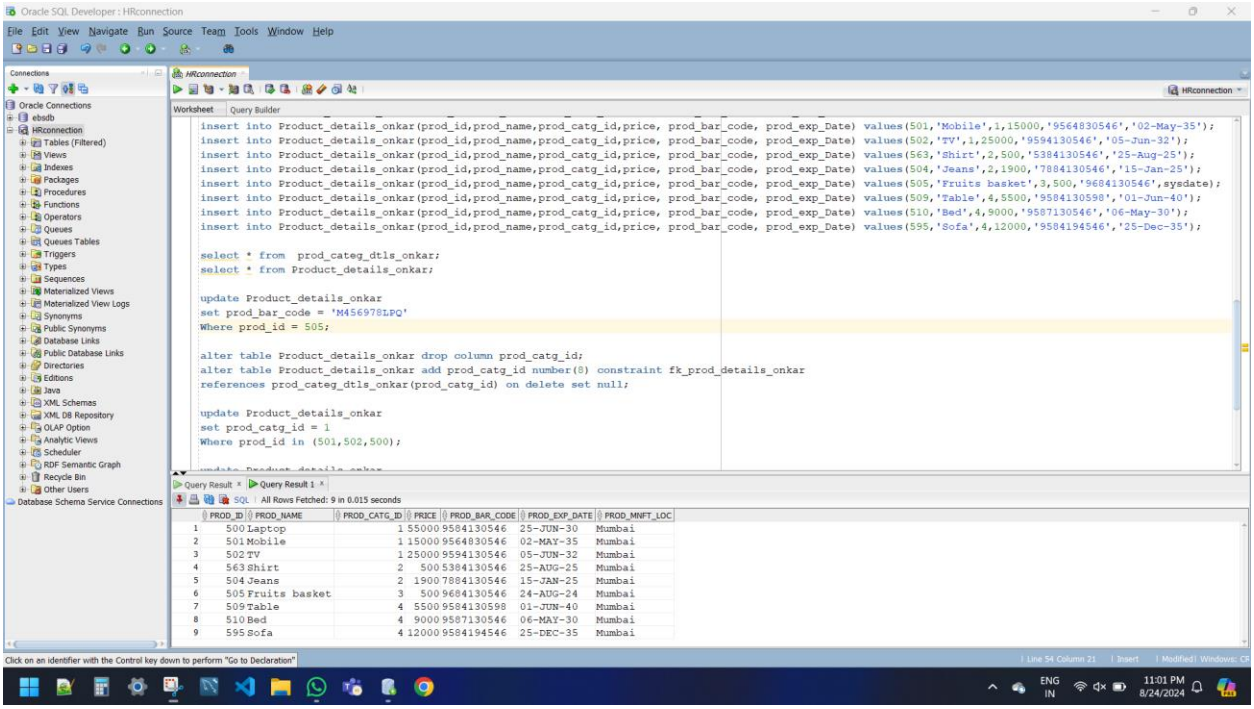
insert into Product_details_onkar(prod_id,prod_name,prod_catg_id,price, prod_bar_code, prod_exp_Date) values(504,'Jeans',2,1900,'7884130546','15-Jan-25');

insert into Product_details_onkar(prod_id,prod_name,prod_catg_id,price, prod_bar_code, prod_exp_Date) values(505,'Fruits basket',3,500,'9684130546',sysdate);

insert into Product_details_onkar(prod_id,prod_name,prod_catg_id,price, prod_bar_code, prod_exp_Date) values(509,'Table',4,5500,'9584130598','01-Jun-40');

insert into Product_details_onkar(prod_id,prod_name,prod_catg_id,price, prod_bar_code, prod_exp_Date) values(510,'Bed',4,9000,'9587130546','06-May-30');

insert into Product_details_onkar(prod_id,prod_name,prod_catg_id,price, prod_bar_code, prod_exp_Date) values(595,'Sofa',4,12000,'9584194546','25-Dec-35');



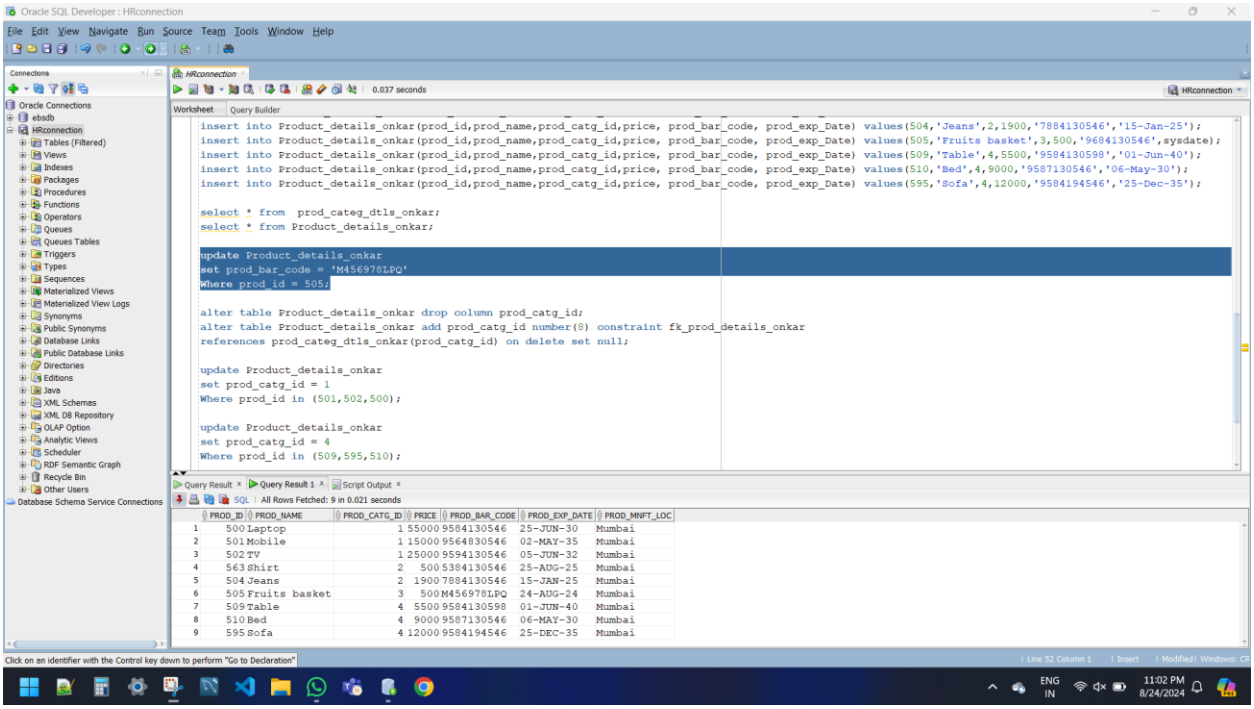
select * from prod_categ_dtls_onkar;

select * from Product_details_onkar;

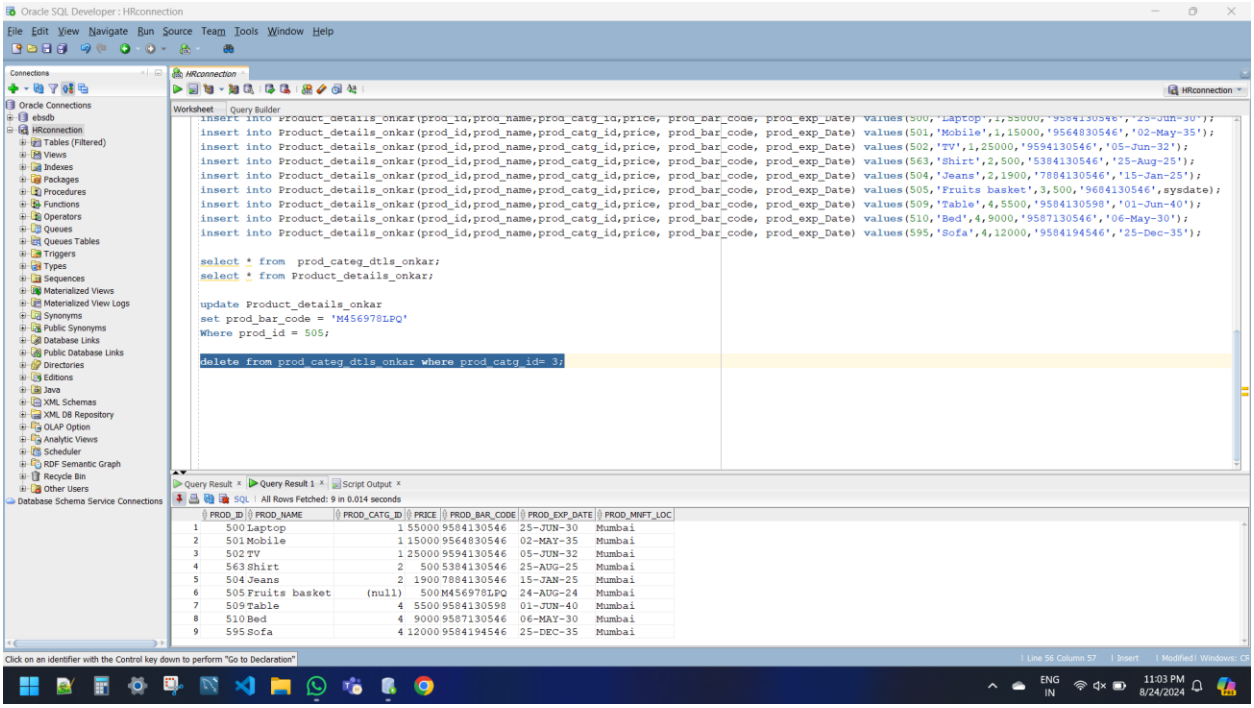
update Product_details_onkar

set prod_bar_code = 'M456978LPQ'

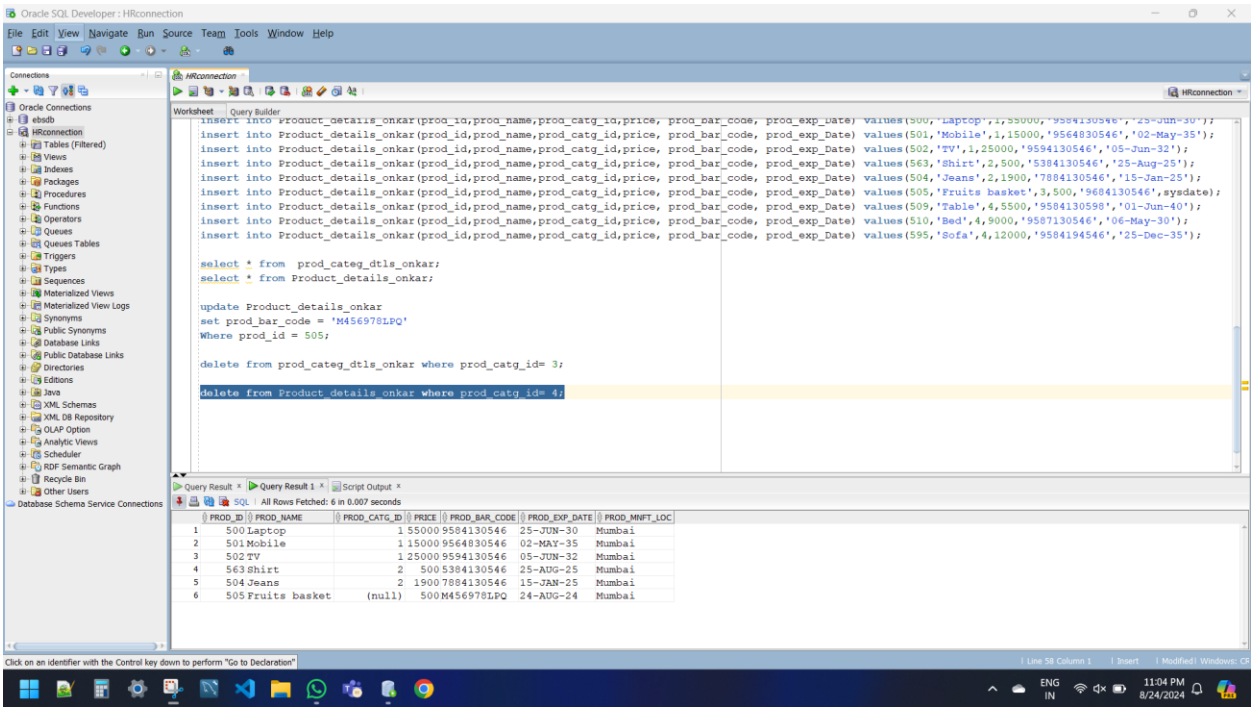
Where prod_id = 505;



delete from prod_categ_dtls_onkar where prod_catg_id= 3;



delete from Product_details_onkar where prod_catg_id= 4;

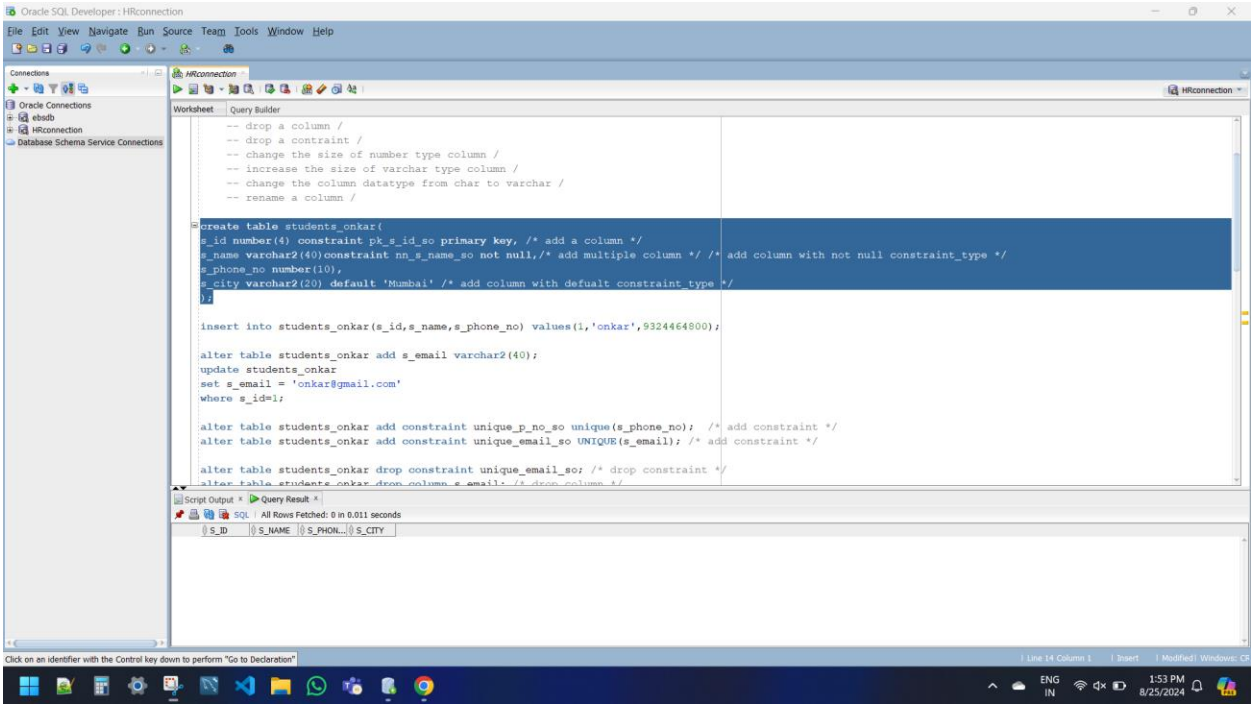


--2. create a student table and perform below operations on it

-- add a column /
-- add multiple column /
-- add column with not null constraint_type /
-- add column with defualt constraint_type /
-- add constraint /
-- drop a column /
-- drop a contraint /
-- change the size of number type column /
-- increase the size of varchar type column /
-- change the column datatype from char to varchar /
-- rename a column /

Answer :

```
create table students_onkar(

s_id number(4) constraint pk_s_id_so primary key, /* add a column */

s_name varchar2(40)constraint nn_s_name_so not null,/* add multiple column / / add column with not null constraint_type */

s_phone_no number(10),

s_city varchar2(20) default 'Mumbai' /* add column with defualt constraint_type */

);


insert into students_onkar(s_id,s_name,s_phone_no) values(1,'onkar',9324464800);
```



alter table students_onkar add s_email varchar2(40);

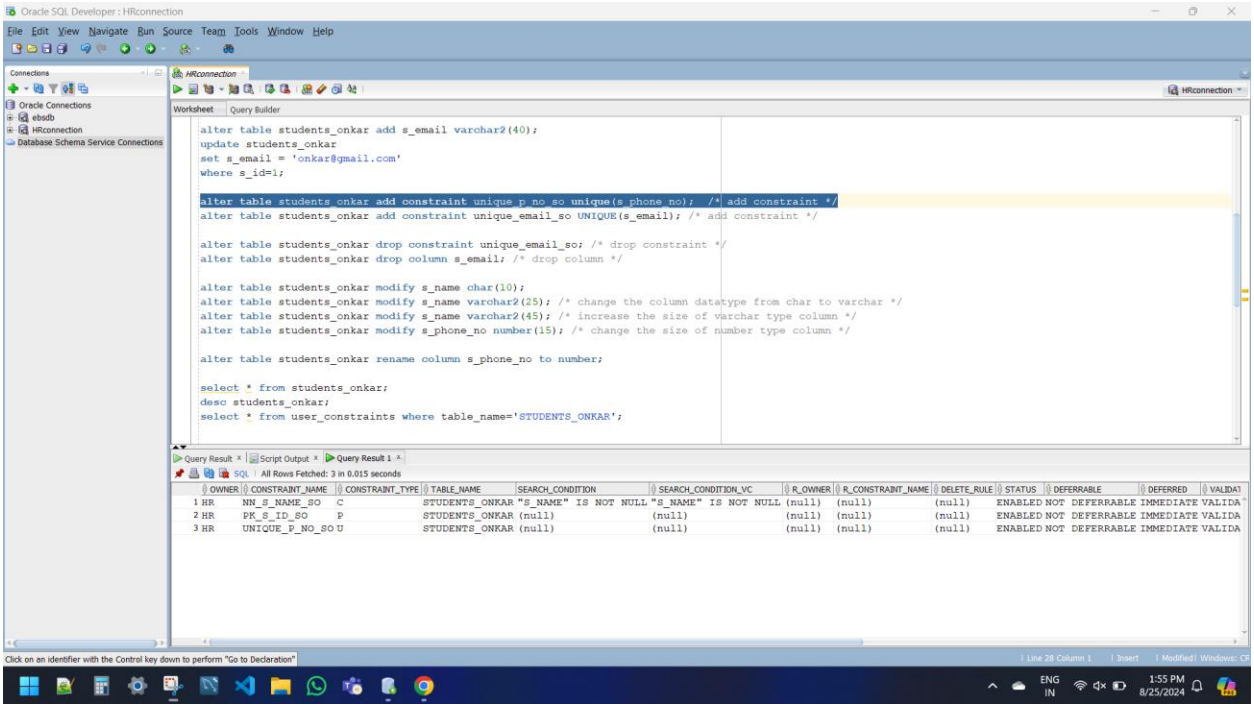
update students_onkar

set s_email = 'onkar@gmail.com'

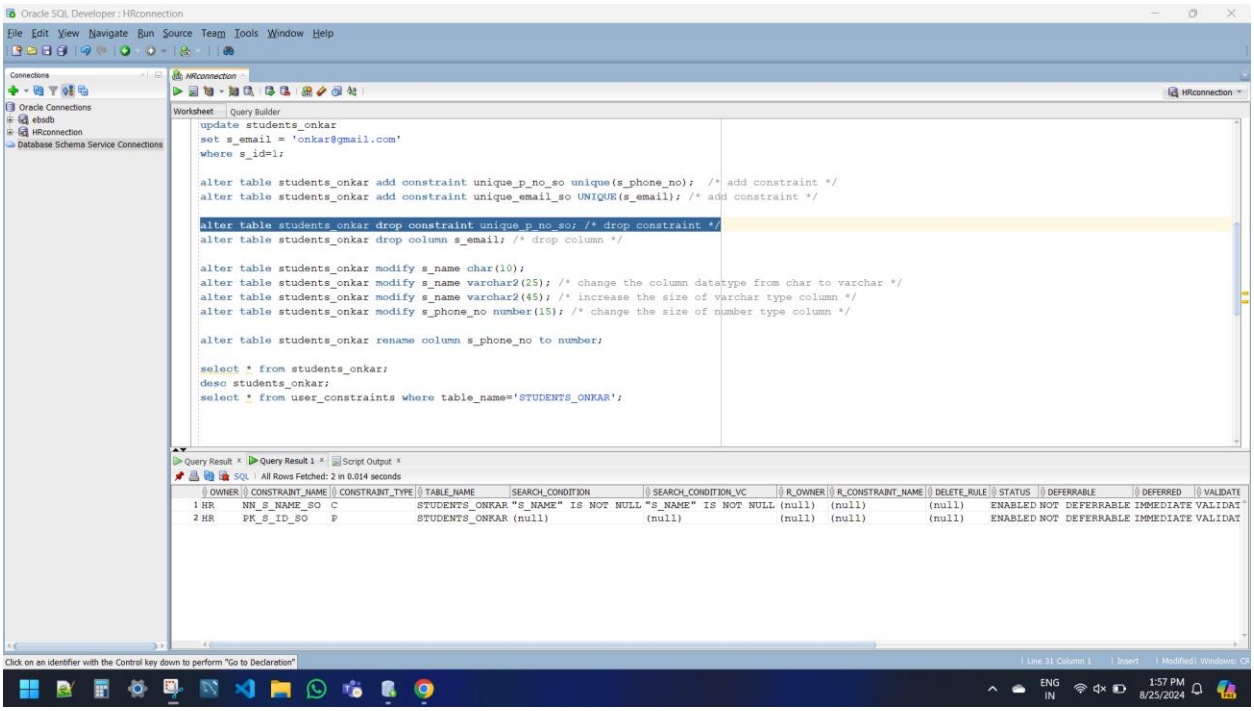
where s_id=1;

alter table students_onkar add constraint unique_p_no_so unique(s_phone_no); /* add constraint */

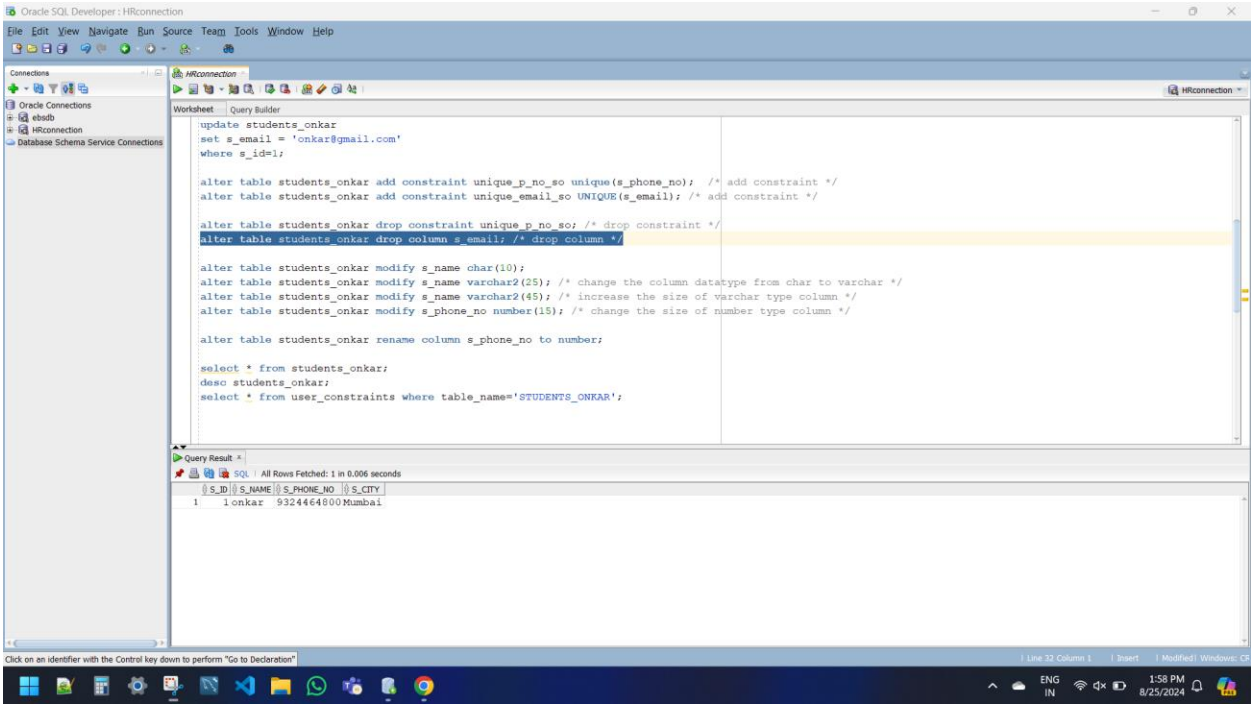
alter table students_onkar add constraint unique_email_so UNIQUE(s_email); /* add constraint */



alter table students_onkar drop constraint unique_p_no_so; /* drop constraint */



alter table students_onkar drop column s_email; /* drop column */

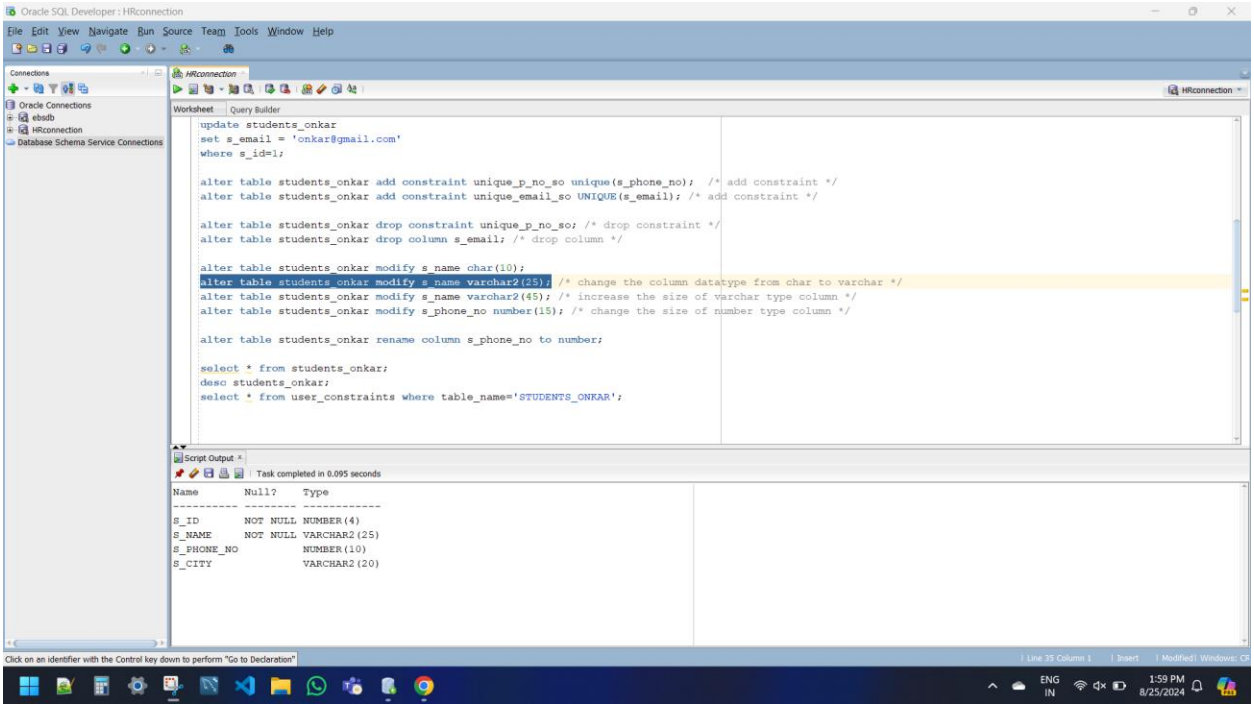


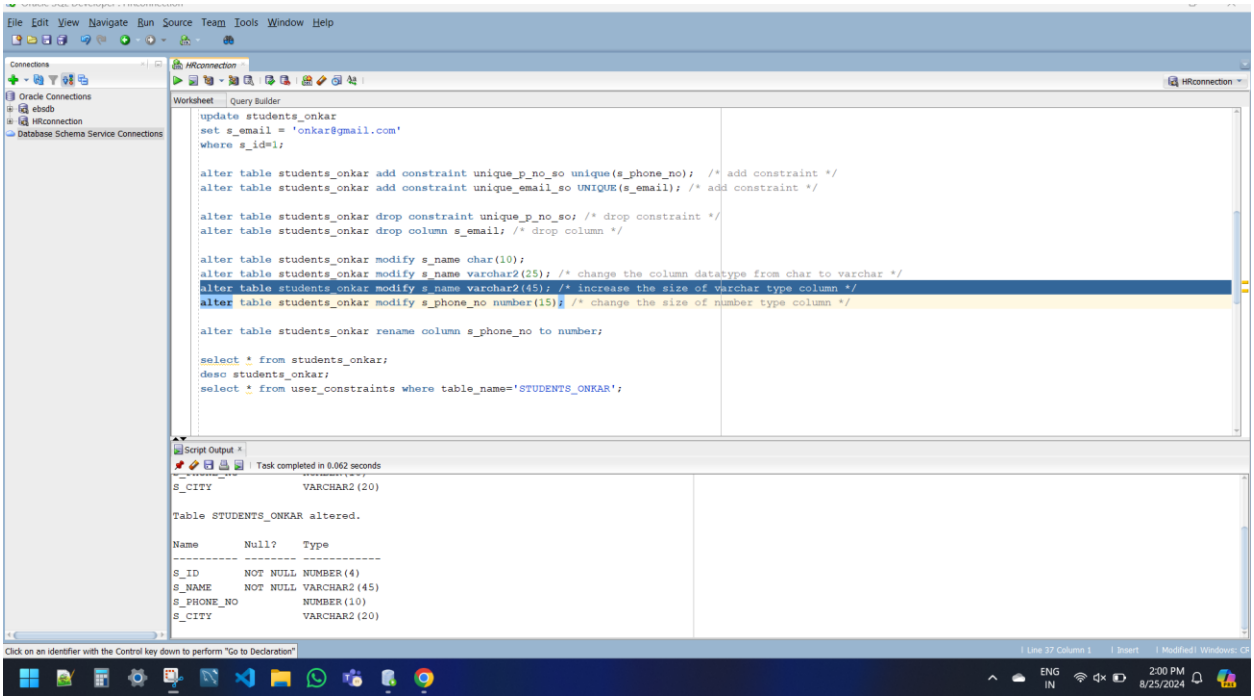
alter table students_onkar modify s_name char(10);

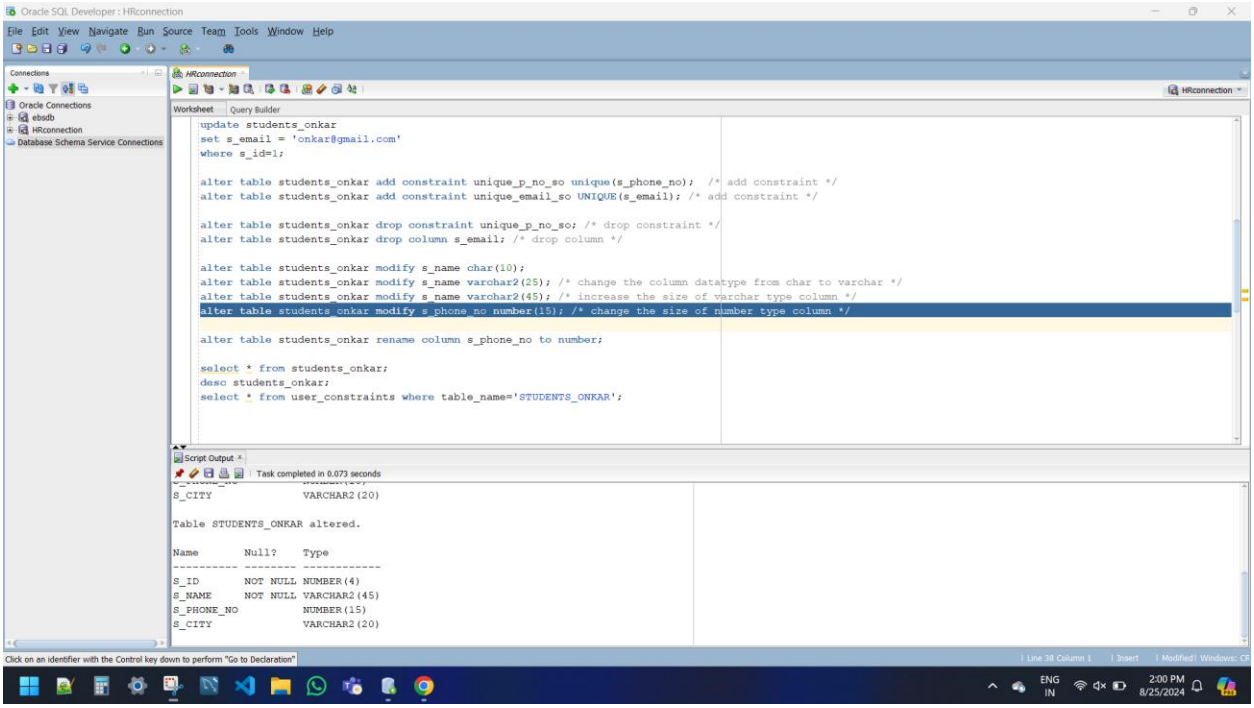
alter table students_onkar modify s_name varchar2(25); /* change the column datatype from char to varchar */

alter table students_onkar modify s_name varchar2(45); /* increase the size of varchar type column */

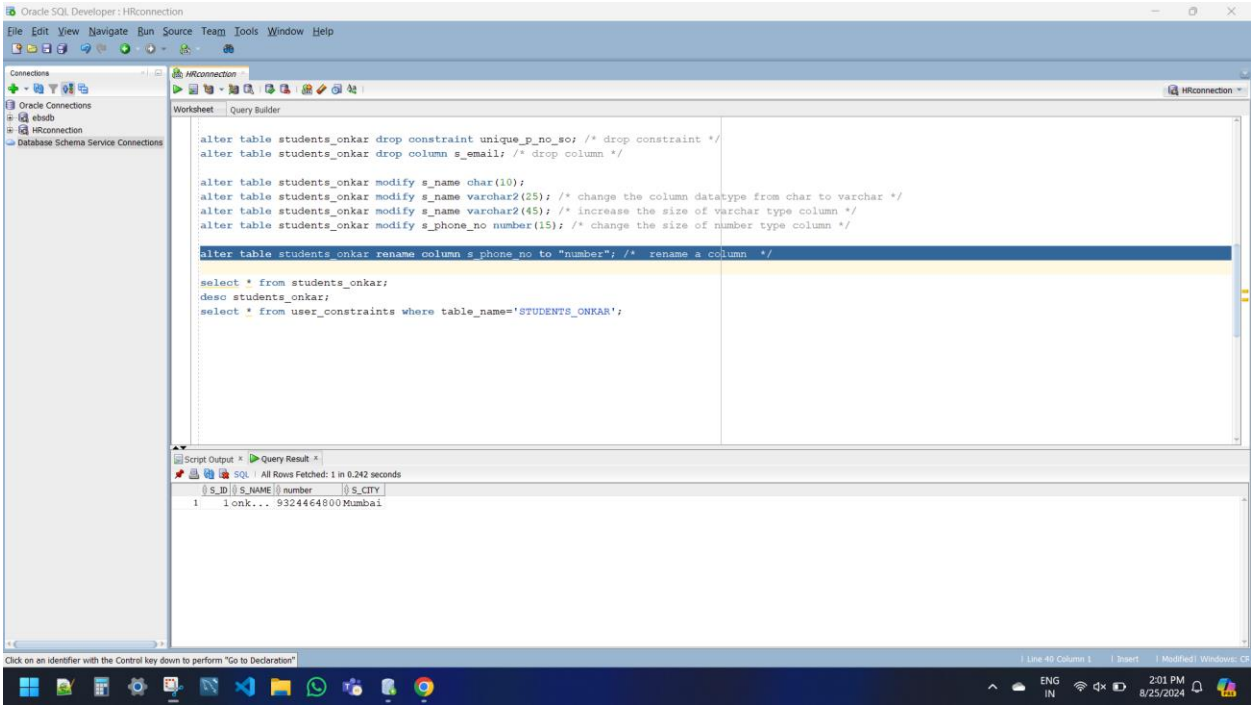
alter table students_onkar modify s_phone_no number(15); /* change the size of number type column */


Oracle SQL Developer : HRconnection
File Edit View Navigate Run Source Team Tools Window Help
Connections
Oracle Connections
ebsdb
HRconnection
Database Schema Service Connections
HRconnection
Worksheet Query Builder
update students_onkar
set s_email = 'onkar@gmail.com'
where s_id=1;
alter table students_onkar add constraint unique_p_no_so unique(s_phone_no); /* add constraint */
alter table students_onkar add constraint unique_email_so UNIQUE(s_email); /* add constraint */
alter table students_onkar drop constraint unique_p_no_so; /* drop constraint */
alter table students_onkar drop column s_email; /* drop column */
alter table students_onkar modify s_name char(10);
alter table students_onkar modify s_name varchar2(25); /* change the column datatype from char to varchar */
alter table students_onkar modify s_name varchar2(45); /* increase the size of varchar type column */
alter table students_onkar modify s_phone_no number(15); /* change the size of number type column */
alter table students_onkar rename column s_phone_no to number;
select * from students_onkar;
desc students_onkar;
select * from user_constraints where table_name='STUDENTS_ONKAR';
Script Output
Task completed in 0.095 seconds
Name Null? Type
S_ID NOT NULL NUMBER(4)
S_NAME NOT NULL VARCHAR2(25)
S_PHONE_NO NUMBER(10)
S_CITY VARCHAR2(20)
Click on an identifier with the Control key down to perform "Go to Declaration"
1:59 PM
8/25/2024


File Edit View Navigate Run Source Team Tools Window Help
Connections
Oracle Connections
ebsdb
HRconnection
Database Schema Service Connections
HRconnection
Worksheet Query Builder
update students_onkar
set s_email = 'onkar@gmail.com'
where s_id=1;
alter table students_onkar add constraint unique_p_no_so unique(s_phone_no); /* add constraint */
alter table students_onkar add constraint unique_email_so UNIQUE(s_email); /* add constraint */
alter table students_onkar drop constraint unique_p_no_so; /* drop constraint */
alter table students_onkar drop column s_email; /* drop column */
alter table students_onkar modify s_name char(10);
alter table students_onkar modify s_name varchar2(25); /* change the column datatype from char to varchar */
alter table students_onkar modify s_name varchar2(45); /* increase the size of varchar type column */
alter table students_onkar modify s_phone_no number(15); /* change the size of number type column */
alter table students_onkar rename column s_phone_no to number;
select * from students_onkar;
desc students_onkar;
select * from user_constraints where table_name='STUDENTS_ONKAR';
Script Output
Task completed in 0.062 seconds
S_CITY VARCHAR2(20)
Table STUDENTS_ONKAR altered.
Name Null? Type
S_ID NOT NULL NUMBER(4)
S_NAME NOT NULL VARCHAR2(45)
S_PHONE_NO NUMBER(10)
S_CITY VARCHAR2(20)
Click on an identifier with the Control key down to perform "Go to Declaration"
2:00 PM
8/25/2024



alter table students_onkar rename column s_phone_no to "number"; /* rename a column */



select * from students_onkar;

desc students_onkar;

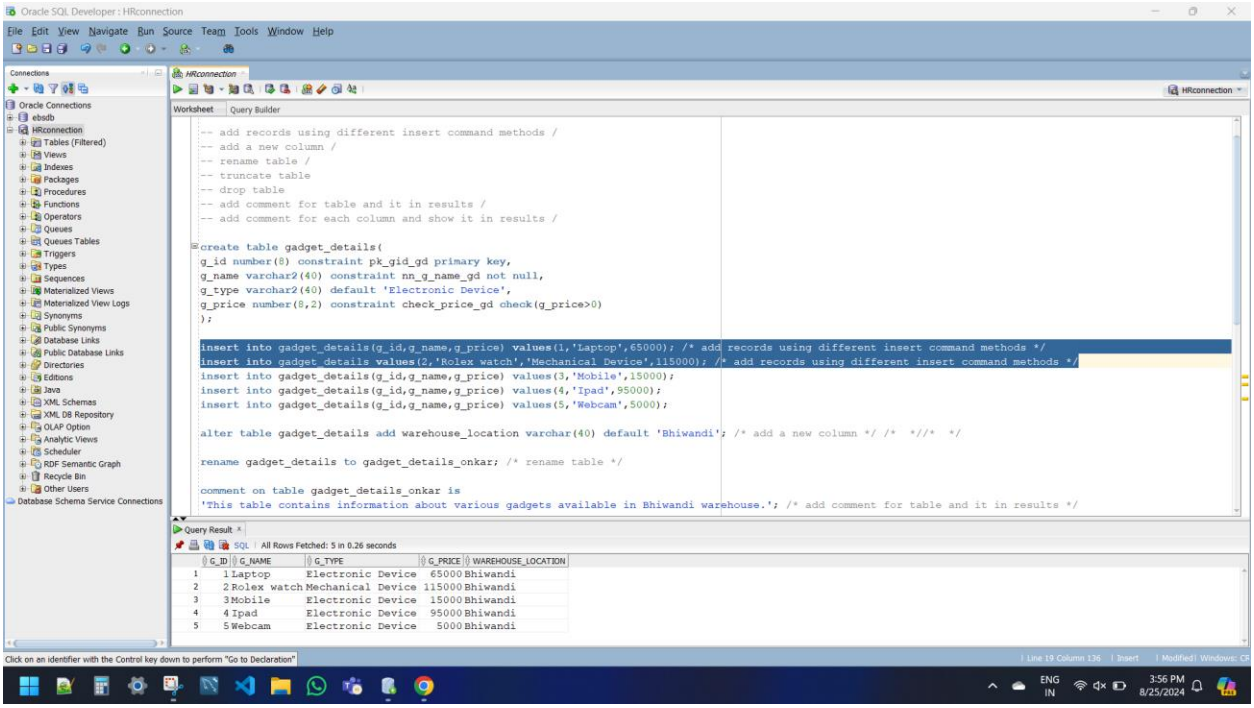
```
select * from user_constraints where table_name='STUDENTS_ONKAR';
```

--3. create a table to store gadget details and perform below opperation

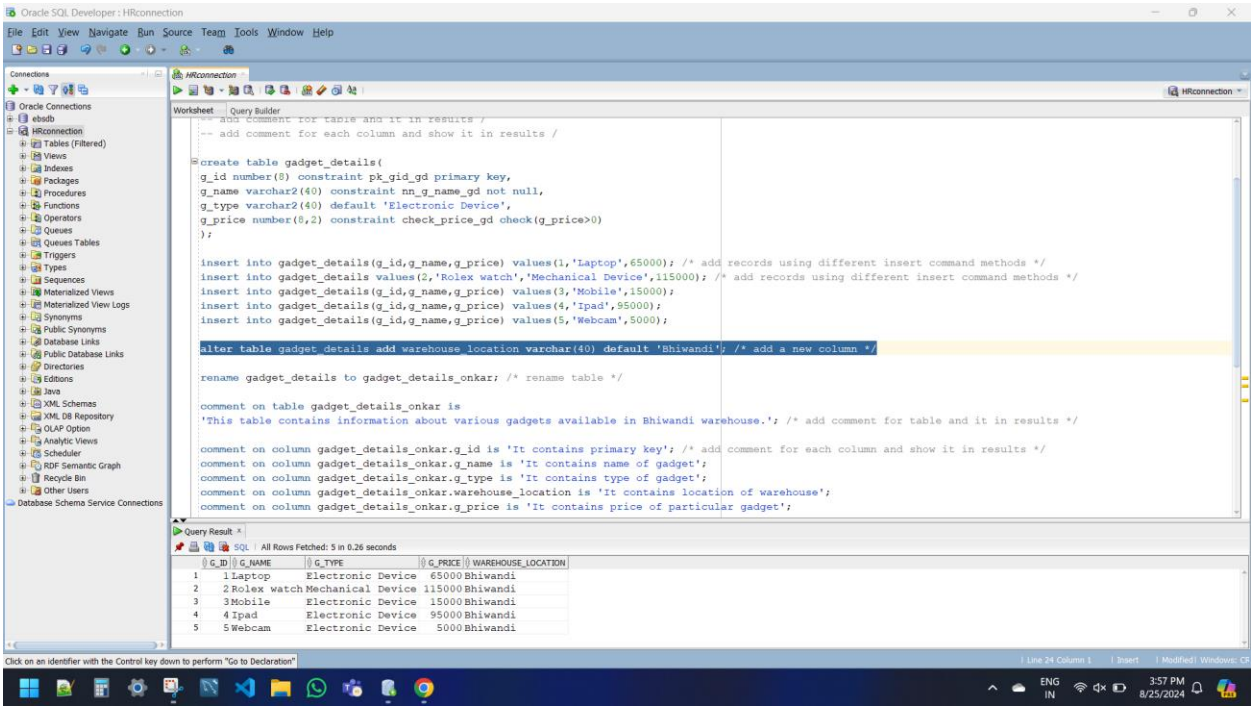
-- add records using different insert command methods /
-- add a new column /
-- rename table /
-- truncate table /
-- drop table /
-- add comment for table and it in results /
-- add comment for each column and show it in results /

Answer :

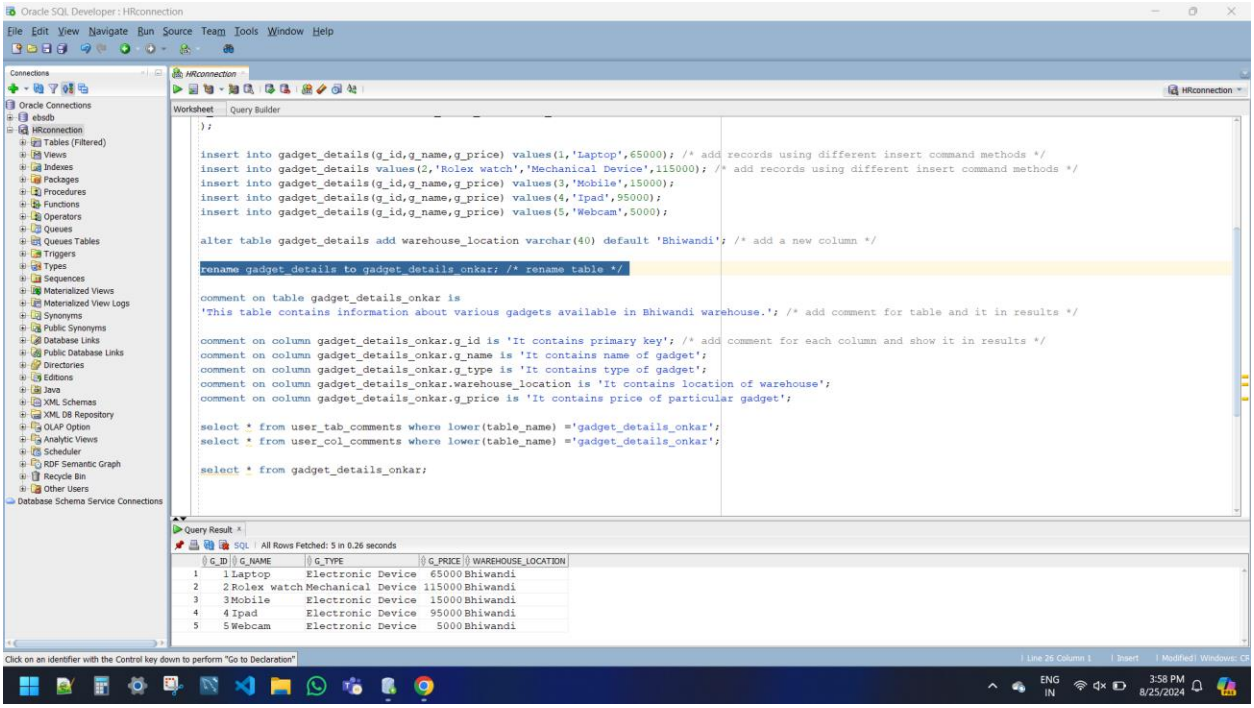
```
create table gadget_details(

g_id number(8) constraint pk_gid_gd primary key,

g_name varchar2(40) constraint nn_g_name_gd not null,

g_type varchar2(40) default 'Electronic Device',

g_price number(8,2) constraint check_price_gd check(g_price>0)

);


insert into gadget_details(g_id,g_name,g_price) values(1,'Laptop',65000); /* add records using different insert command methods */

insert into gadget_details values(2,'Rolex watch','Mechanical Device',115000); /* add records using different insert command methods */

insert into gadget_details(g_id,g_name,g_price) values(3,'Mobile',15000);

insert into gadget_details(g_id,g_name,g_price) values(4,'Ipad',95000);

insert into gadget_details(g_id,g_name,g_price) values(5,'Webcam',5000);
```



alter table gadget_details add warehouse_location varchar(40) default 'Bhiwandi'; /* add a new column */

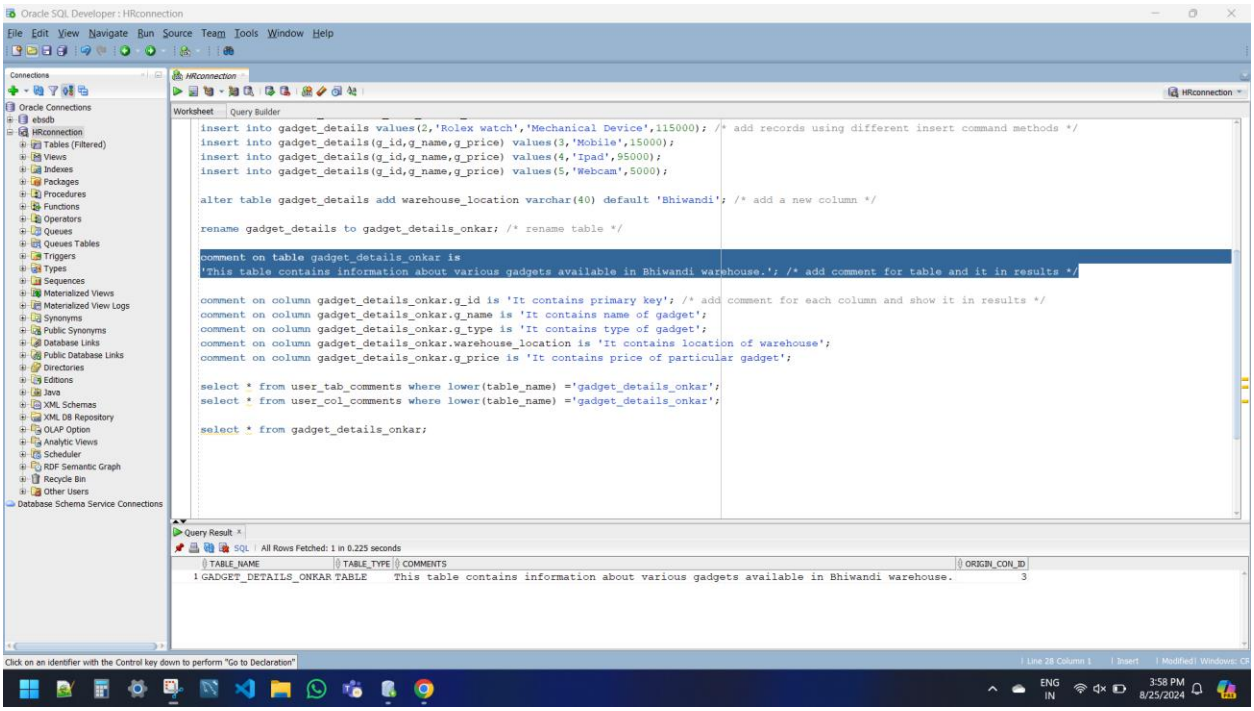


rename gadget_details to gadget_details_onkar; /* rename table */

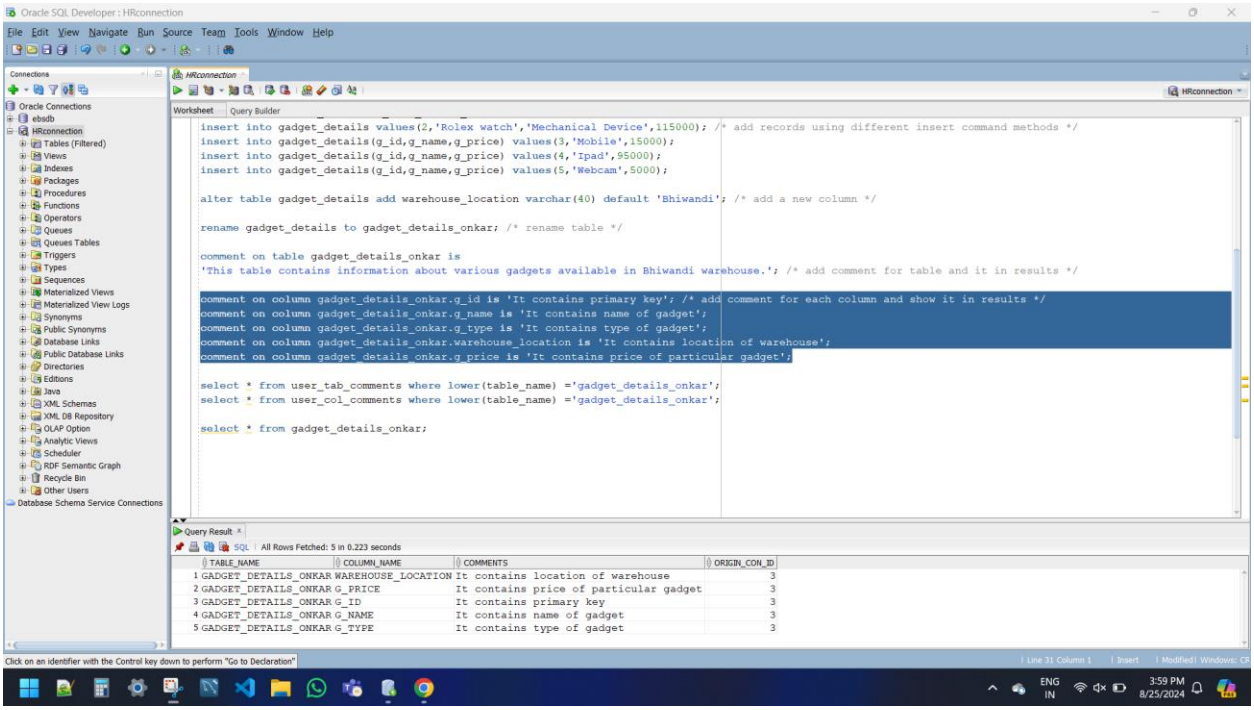


comment on table gadget_details_onkar is

'This table contains information about various gadgets available in Bhiwandi warehouse.';
/* add comment for table and it in results */



comment on column gadget_details_onkar.g_id is 'It contains primary key'; /* add comment for each column and show it in results */



comment on column gadget_details_onkar.g_name is 'It contains name of gadget';

comment on column gadget_details_onkar.g_type is 'It contains type of gadget';

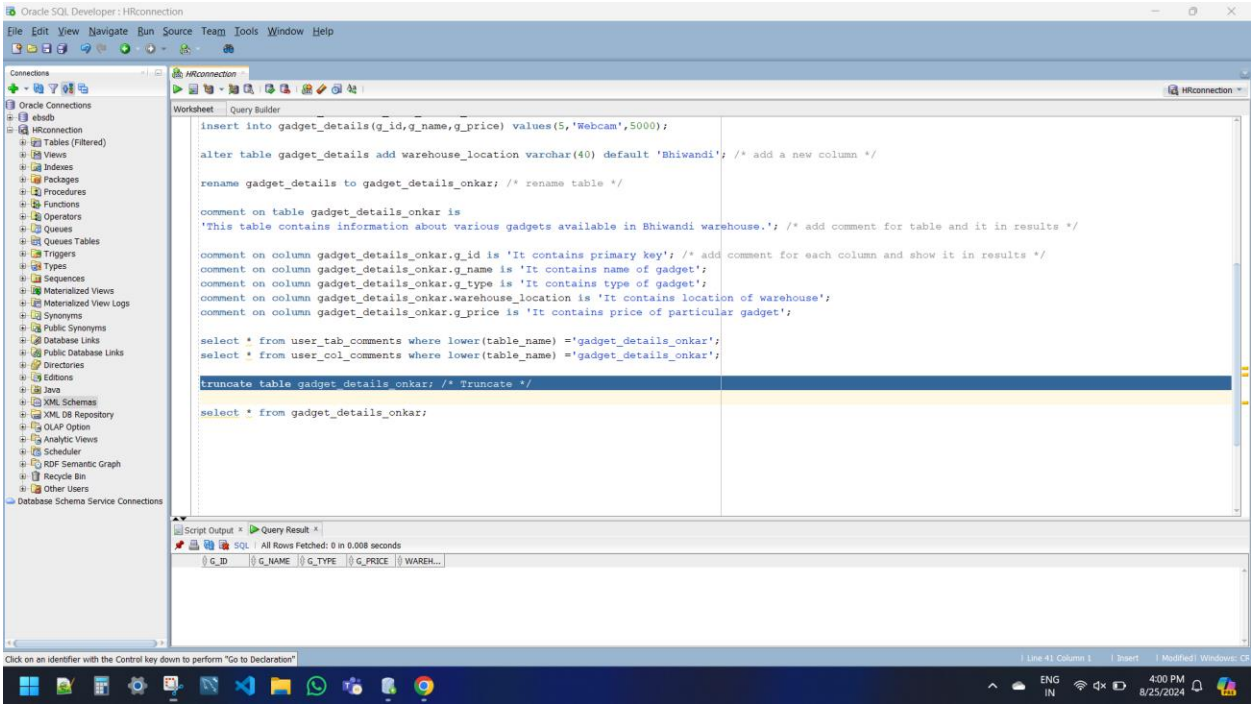
comment on column gadget_details_onkar.warehouse_location is 'It contains location of warehouse';

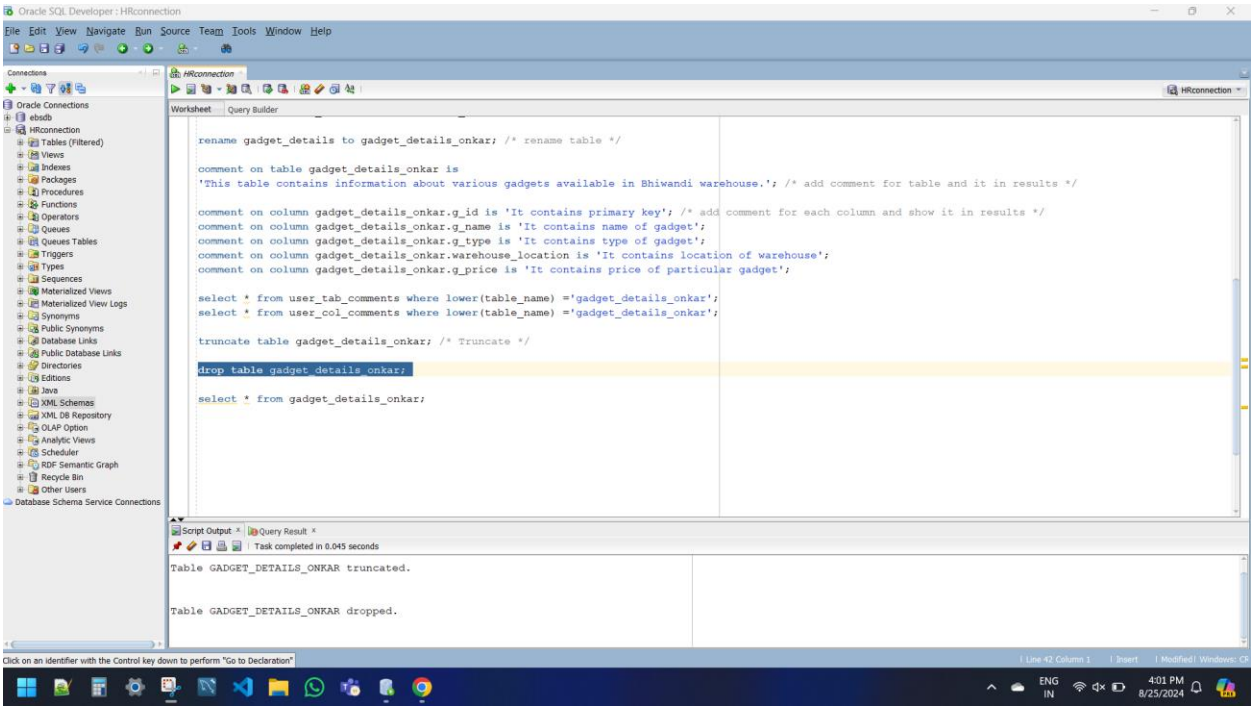
comment on column gadget_details_onkar.g_price is 'It contains price of particular gadget';

select * from user_tab_comments where lower(table_name) ='gadget_details_onkar';

select * from user_col_comments where lower(table_name) ='gadget_details_onkar';

truncate table gadget_details_onkar; /* Truncate */





drop table gadget_details_onkar;

select * from gadget_details_onkar;