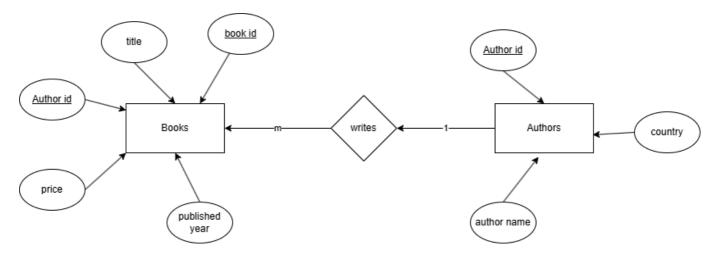
DBMS LAB 2 EXERCISES

Siddharth Karmokar, 123cs0061

Exercise 1:1: ER_DIAGRAM



Excercise 1:2: AUTHORS

```
Worksheet Query Builder

create table authors (
    author_id number primary key,
    aurhor_name varchar2(100),
    country varchar2(100)
);

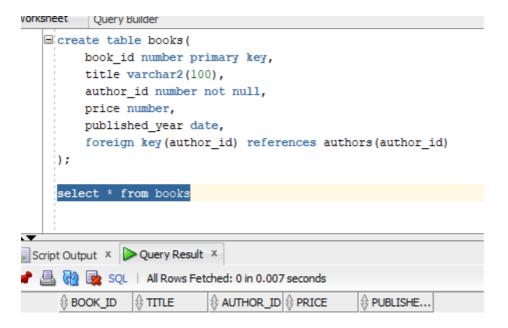
select * from authors

Script Output * Query Result *

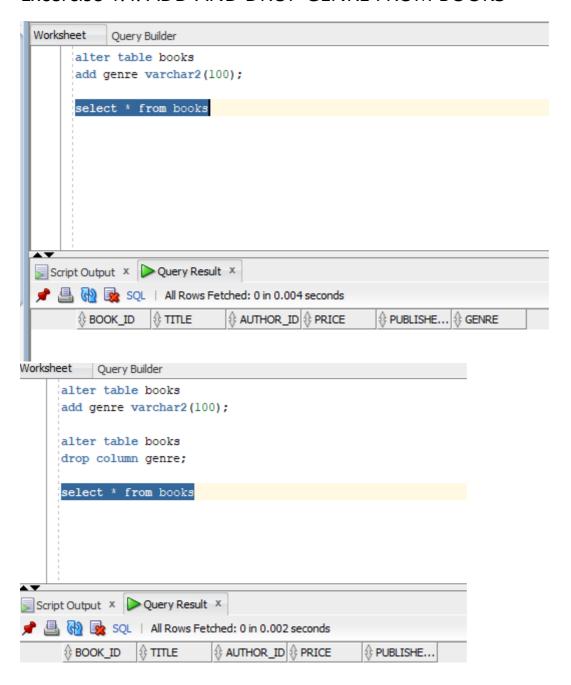
Query Result *

AUTHOR_ID AURHOR_... COUNTRY
```

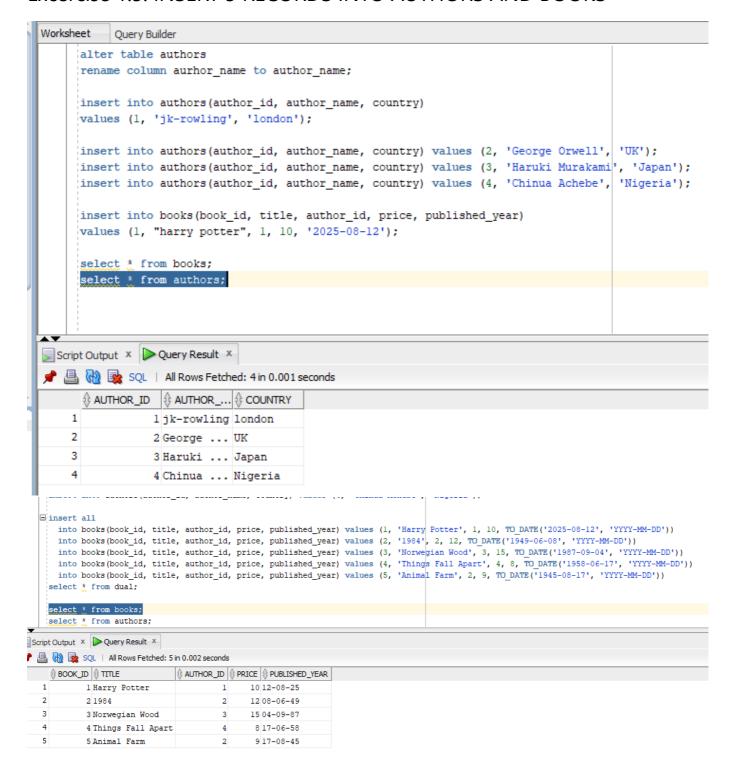
Excercise 1:3: BOOKS



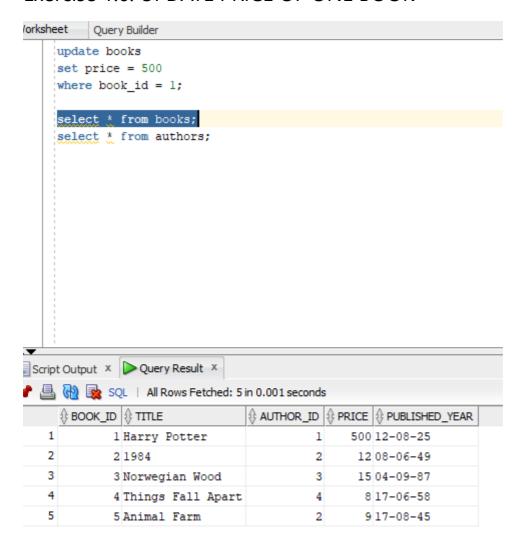
Excercise 1:4: ADD AND DROP GENRE FROM BOOKS



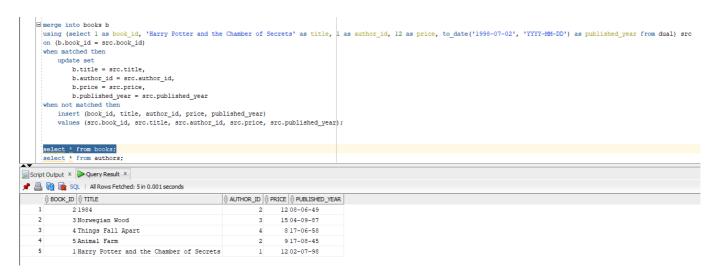
Excercise 1:5: INSERT 5 RECORDS INTO AUTHORS AND BOOKS



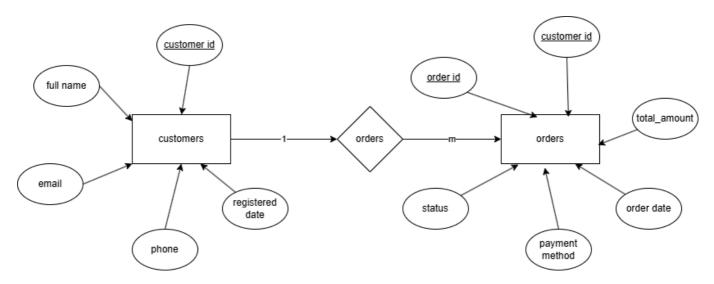
Exercise 1:6: UPDATE PRICE OF ONE BOOK



Exercise 1:7: MERGE COMMAND TO UPDATE ONE BOOK RECORD



Exercise 2:1: ER_DIAGRAM



Excercise 2:2: CUSTOMERS

```
Worksheet
               Query Builder
       create table customers (
             customer id number primary key,
             full_name varchar2(100),
             email varchar2(100) unique,
             phone number,
             registered date date
         );
       merge into books b
         using (select 1 as book_id, 'Harry Potter and the Chamber of
         on (b.book_id = src.book_id)
         when matched then
             update set
                  b.title = src.title,
                  b.author_id = src.author_id,
                  b.price = src.price,
                  b.published_year = src.published_year
         when not matched then
   Script Output X Query Result X
   📌 🖺 🙀 🗽 SQL | All Rows Fetched: 0 in 0.004 seconds

⊕ CUSTOME... ⊕ FULL_NAME | ⊕ EMAIL

♠ PHONE

    REGISTER...

3
```

Excercise 2:3: ORDERS

```
create table orders(
    order_id number primary key,
    customer_id number not null,
    status varchar2(100),
    total_amount number,
    order_date date
);

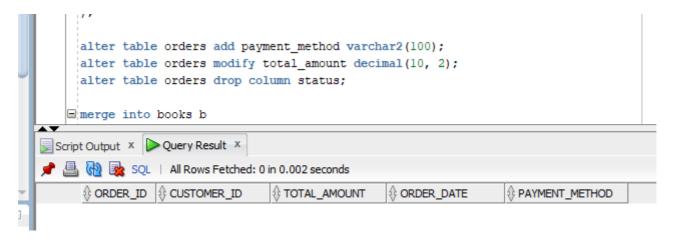
merge into books b
    using (select 1 as book_id, 'Harry Potter and the Chamber

Script Output x Query Result x

Script Output x Query Result x

ORDER_ID CUSTOME... STATUS TOTAL_A... ORDER_D...
```

Excercise 2:4: ADD PAYMENT_METHOD TO ORDERS, MODIFY PERCISION OF TOTAL_AMOUNT, DROP STATUS



Excercise 2:5: INSERT 5 CUSTOMERS AND LINKED ORDERS

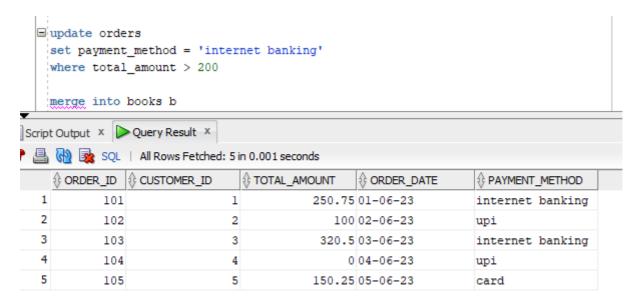
```
insert into customers (customer id, full name, email, phone, registered date) values
      (1, 'alice johnson', 'alice@example.com', 1234567890, to date('2023-01-15', 'yyyy-mm-dd'));
      insert into customers (customer_id, full_name, email, phone, registered_date) values
      (2, 'bob smith', 'bob@example.com', 2345678901, to date('2023-02-20', 'yyyy-mm-dd'));
      insert into customers (customer id, full name, email, phone, registered date) values
      (3, 'carol williams', 'carol@example.com', 3456789012, to date('2023-03-05', 'yyyy-mm-dd'));
      insert into customers (customer_id, full_name, email, phone, registered_date) values
      (4, 'david brown', 'david@example.com', 4567890123, to date('2023-04-10', 'yyyy-mm-dd'));
      insert into customers (customer id, full name, email, phone, registered date) values
      (5, 'emma davis', 'emma@example.com', 5678901234, to date('2023-05-25', 'yyyy-mm-dd'));
Script Output X Query Result X
📌 🚇 祸 🕵 SQL | All Rows Fetched: 5 in 0.002 seconds

⊕ PHONE

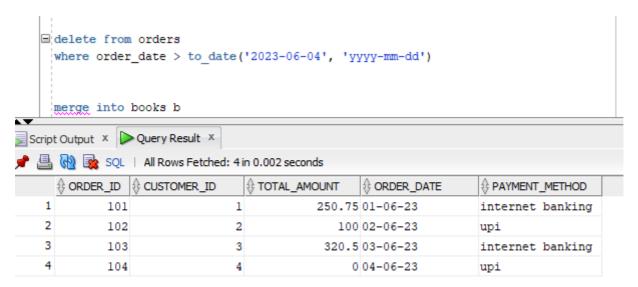
⊕ EMAIL

                                                              REGISTERED DATE
    1
                  1 alice johnson alice@example.com 1234567890 15-01-23
    2
                                 bob@example.com 234567890120-02-23
                  2 bob smith
    3
                  3 carol williams carol@example.com 3456789012 05-03-23
    4
                  4 david brown david@example.com 4567890123 10-04-23
    5
                  5 emma davis
                                emma@example.com 567890123425-05-23
    insert into orders (order_id, customer_id, payment_method, total_amount, order_date) values
    (101, 1, 'upi', 250.75, to date('2023-06-01', 'yyyy-mm-dd'));
    insert into orders (order_id, customer_id, payment_method, total_amount, order_date) values
    (102, 2, 'upi', 100.00, to date('2023-06-02', 'yyyy-mm-dd'));
    insert into orders (order_id, customer_id, payment_method, total_amount, order_date) values
    (103, 3, 'cash on delivery', 320.50, to date('2023-06-03', 'yyyy-mm-dd'));
    insert into orders (order id, customer id, payment method, total amount, order date) values
    (104, 4, 'upi', 0, to date('2023-06-04', 'yyyy-mm-dd'));
    insert into orders (order_id, customer_id, payment_method, total_amount, order_date) values
    (105, 5, 'card', 150.25, to date('2023-06-05', 'yyyy-mm-dd'));
Script Output X Query Result X
🧨 🖺 🙀 🗽 SQL | All Rows Fetched: 5 in 0.001 seconds
    # PAYMENT_METHOD
           101
                             1
                                         250.75 01-06-23
   2
           102
                             2
                                            100 02-06-23
                                                                upi
   3
           103
                              3
                                          320.5 03-06-23
                                                               cash on delivery
   4
           104
                              4
                                              0 04-06-23
                                                               upi
           105
                              5
                                         150.25 05-06-23
                                                                card
```

Exercise 2:6: UPDATE PAYMENT METHODS FOR ORDERS ABOVE A CERTAIN VALUE



Exercise 2:7: DELETE ORDERS FROM YETERDAY



Exercise 2:7: MERGE TO UPDATE CUSTOMER DATA

```
merge into customers c
   using (select 1 as customer_id, 'alice johnsom' as full_name, 'newalice@gmail.com' as email, 1234567891 as phone, to_date('2023-01-15', 'yyyy-mm-dd') as registered_date from dual) src
   on (c.customer_id = src.customer_id)
when matched then
      update set
         c.email = src.email
         c.phone = src.phone
   when not matched then
      insert (customer_id, full_name, email, phone, registered_date)
values (src.customer_id, src.full_name, src.email, src.phone, src.registered_date);
 Script Output × Query Result ×
📌 🚇 🝓 🕵 SQL | All Rows Fetched: 5 in 0.001 seconds
    PHONE REGISTERED_DATE
            lalice johnson newalice@gmail.com 1234567891 15-01-23
            2 bob smith bob@example.com 234567890120-02-23 3 carol williams carol@example.com 345678901205-03-23
            4 david brown david@example.com 456789012310-04-23
5emma davis emma@example.com 567890123425-05-23
            5 emma davis
       insert into dummy (customer_id, full_name, email, phone, registered_date) values
       (6, 'alice smith', 'alicesmith@example.com', 1234567892, to date('2023-07-15', 'yyyy-mm-dd'));
     merge into customers c
       using dummy src
       on (c.customer id = src.customer id)
       when matched then
             update set
                  c.email = src.email,
                  c.phone = src.phone
       when not matched then
             insert (customer id, full name, email, phone, registered date)
             values (src.customer id, src.full name, src.email, src.phone, src.registered date);
Script Output × Query Result ×
📌 🖺 🙀 🗽 SQL | All Rows Fetched: 6 in 0.001 seconds
        ⊕ CUSTOMER_ID | ⊕ FULL_NAME
                                                                                            REGISTERED DATE

⊕ EMAIL

                                                                              PHONE
      1
                        lalice johnson newalice@gmail.com
                                                                              1234567891 15-01-23
      2
                        2 bob smith
                                              bob@example.com
                                                                              2345678901 20-02-23
      3
                        3 carol williams carol@example.com
                                                                              3456789012 05-03-23
      4
                        4 david brown
                                             david@example.com
                                                                              4567890123 10-04-23
      5
                        5 emma davis
                                             emma@example.com
                                                                              5678901234 25-05-23
     6
                        6 alice smith
                                             alicesmith@example.com 1234567892 15-07-23
```