create table Authors(

author\_id number(4) primary key,

names varchar2(30),

email varchar2 (100),

country varchar(20)

);

create table Books(

book\_id number(4) primary key,

title varchar2(10),

author\_id number(4) references Authors(author\_id),

price number(5),

quantity number(6)

);

create table Customers(

customer\_id number(4) Primary key,

names varchar2(30),

email varchar2(100),

address varchar2(30)

);

create table Orders(

order\_id number(4) primary key,

customer\_id number(4) references Customers(customer\_id),

book\_id number(4) references Books(book\_id),

order\_date date,

quantity number(10)

);

create table salaries(

salary varchar2(1000),

customer\_id number(4) references Customers (customer\_id)

);

--inserting the values in salaries

INSERT INTO salaries(salary,customer\_id)

VALUES(35000,3001);

INSERT INTO salaries(salary,customer\_id)

VALUES(40000,3002);

INSERT INTO salaries(salary,customer\_id)

VALUES(20000,3003);

INSERT INTO salaries(salary,customer\_id)

VALUES(15000,3004);

INSERT INTO salaries(salary,customer\_id)

VALUES(10000,3005);

INSERT INTO salaries(salary,customer\_id)

VALUES(50000,3006);

INSERT INTO salaries(salary,customer\_id)

VALUES(22000,3007);

--inserting the values in authors table.

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1001, 'John Smith', 'johnsmith@example.com', 'United States');

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1002, 'Jane Doe', 'janedoe@example.com', 'Canada');

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1003, 'Michael Johnson', 'michaeljohnson@example.com', 'United Kingdom');

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1004, 'Emily Wilson', 'emilywilson@example.com', 'Australia');

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1005, 'David Lee', 'davidlee@example.com', 'South Korea');

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1006, 'Sophia Chen', 'sophiachen@example.com', 'Taiwan');

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1007, 'Mohammed Ahmed', 'mohammedahmed@example.com', 'Egypt');

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1008, 'Maria Rodriguez', 'maria.rodriguez@example.com', 'Mexico');

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1009, 'Andreas Müller', 'andreas.mueller@example.com', 'Germany');

INSERT INTO Authors (author\_id, names, email, country)

VALUES (1010, 'Anna Petrova', 'anna.petrova@example.com', 'Russia');

--inserting the values in Books table

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2001, 'Book 1', 1001, 19.99, 50);

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2002, 'Book 2', 1002, 12.99, 25);

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2003, 'Book 3', 1003, 9.99, 40);

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2004, 'Book 4', 1004, 14.99, 30);

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2005, 'Book 5', 1005, 17.99, 20);

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2006, 'Book 6', 1006, 21.99, 15);

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2007, 'Book 7', 1007, 10.99, 35);

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2008, 'Book 8', 1008, 16.99, 45);

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2009, 'Book 9', 1009, 13.99, 28);

INSERT INTO Books (book\_id, title, author\_id, price, quantity)

VALUES (2010, 'Book 10', 1010, 11.99, 22);

--inserting the values in Customers table

INSERT INTO Customers (customer\_id, names, email, address)

VALUES (3002, 'Sophia Thompson', 'sophiathompson@example.com', '579 Oak Avenue');

INSERT INTO Customers (customer\_id, names, email, address)

VALUES (11, 'Ethan Davis', 'ethandavis@example.com', '912 Maple Drive');

INSERT INTO Customers (customer\_id, names, email, address)

VALUES (3003, 'Mia Wilson', 'miawilson@example.com', '345 Pine Lane');

INSERT INTO Customers (customer\_id, names, email, address)

VALUES (3004, 'Liam Brown', 'liambrown@example.com', '678 Cedar Road');

INSERT INTO Customers (customer\_id, names, email, address)

VALUES (3005, 'Ava Smith', 'avasmith@example.com', '901 Walnut Street');

INSERT INTO Customers (customer\_id, names, email, address)

VALUES (3006, 'Noah Martinez', 'noahmartinez@example.com', '234 Birch Avenue');

INSERT INTO Customers (customer\_id, names, email, address)

VALUES (3007, 'Charlotte Garcia', 'charlottegarcia@example.com', '567 Oak Street');

--inserting the values for orders

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4001, 3002, 2001, '07/01/2023', 2);

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4002, 11, 2002, '06/19/2019', 1);

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4003, 3003, 2003, '10/12/2022', 3);

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4004, 3004, 2004, '12/30/2020', 1);

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4005, 3005, 2005, '11/25/2019', 2);

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4006, 3006, 2006, '01/01/2023', 1);

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4007, 3007, 2007, '04/27/2019', 2);

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4008, 3002, 2008, '09/20/2021', 1);

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4009, 11, 2009, '10/22/2022', 3);

INSERT INTO Orders (order\_id, customer\_id, book\_id, order\_date, quantity)

VALUES (4010, 3003, 2010, '10/22/2022', 2);

--select all for each table

select \* from Authors

select \* from Books

select \* from Orders

select \* from Customers

select \* from salaries

--joining the 2 tables

SELECT a.names, a.email, b.title, b.price

FROM Authors a, Books b

WHERE a.author\_id = b.author\_id;

--joing three tables

SELECT o.customer\_id, o.order\_date, o.quantity, b.author\_id, b.book\_id, b.title

FROM Orders o

JOIN Books b ON b.book\_id = o.book\_id

JOIN Customers c ON c.customer\_id = o.customer\_id;

--select the book that are order before 2023-jan-01 with dates and customer\_id, customer name and email.

select c.customer\_id, c.names, c.email, o.order\_date, o.quantity

from customers c , orders o

where c.customer\_id = o.customer\_id AND (order\_date < '01/01/2023')

--select the salary according to the asc and desc.

select salary from salaries

where salary >30000

order by salary DESC;

select salary from salaries

order by salary ASC;

--select a customer name alphabetly.

select names from customers

order by names desc;

--select the name using specefic alphabet W.

SELECT names

FROM customers

WHERE names LIKE 'A%';

--select the name which ends with z.

SELECT names

FROM customers

WHERE names LIKE '%z';

--select the names which start with s and ends with n.

SELECT names

FROM customers

WHERE names BETWEEN 'S' AND 'n';

--select the customername, customer\_is who has higher that the average salaries

SELECT c.customer\_id,c.names, s.salary

FROM customers c, salaries s

WHERE c.customer\_id = s.customer\_id

AND s.salary > (SELECT AVG(salary) FROM salaries);