

## TASK 3

### CREATING A TABLE AND INSERTING THE VALUES

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'ecommerce\_db' selected. The main editor shows three SQL queries: creating 'users', 'products', and 'orders' tables. The 'Output' pane at the bottom shows an error message: 'Error Code: 1061. Duplicate key name 'idx\_order\_items\_ord''.

```
1 CREATE TABLE users(  
2   user_id INT PRIMARY KEY,  
3   name VARCHAR(100),  
4   email VARCHAR(100),  
5   signup_date DATE  
6 );  
7  
8 CREATE TABLE products(  
9   product_id INT PRIMARY KEY,  
10  name VARCHAR(100),  
11  category VARCHAR(100),  
12  price DECIMAL(10,2)  
13 );  
14  
15 CREATE TABLE orders(  
16   order_id INT PRIMARY KEY,  
17   user_id INT,  
18   product_id INT,  
19   order_date DATE,  
20   total_price DECIMAL(10,2)  
21 );
```

#	Time	Action	Message
33	14:42:30	CREATE INDEX idx_order_items_order_id ON order_items(order_id)	Error Code: 1061. Duplicate key name 'idx_order_items_ord'
34	14:42:31	CREATE INDEX idx_order_items_order_id ON order_items(order_id)	Error Code: 1061. Duplicate key name 'idx_order_items_ord'
35	14:42:39	CREATE INDEX idx_order_items_order_id ON order_items(order_id)	Error Code: 1061. Duplicate key name 'idx_order_items_ord'
36	14:42:41	CREATE INDEX idx_order_items_order_id ON order_items(order_id)	Error Code: 1061. Duplicate key name 'idx_order_items_ord'

### sql query select

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'ecommerce\_db' selected. The main editor shows three SQL queries: 'SELECT \* FROM products;', 'SELECT \* FROM orders;', and 'SELECT \* FROM order\_items;'. The 'Result Grid' at the bottom shows the results of the first query, displaying columns: product\_id, name, category, and price.

```
1 SELECT * FROM products;  
2 SELECT * FROM orders;  
3 SELECT * FROM order_items;
```

product_id	name	category	price
106	Bag	Accessories	899.00
107	Jeans	Clothing	1299.00
108	Keyboard	Electronics	999.00
109	Mouse	Electronics	699.00
110	Jacket	Clothing	2499.00
111	Bottle	Home	199.00
112	Phone Case	Accessories	299.00
113	Socks	Clothing	149.00
114	Charger	Electronics	799.00
115	Notebook	Stationery	99.00

MySQL Workbench

Local instance MySQL80 (eco... x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- classicmodels
- ecommerce\_db
  - Tables
  - Views
  - Stored Procedures
  - Functions
- learning
- poojitha
- sys

Administration Schemas

Information

No object selected

Query 1 SQL File 2\* SQL File 3\* SQL File 4\* SQL File 6\* SQL File 5\* SQL File 7\* SQL File 8\* SQL File 9\*

```
1 • SELECT product_id, name, category
2 FROM products;
```

Result Grid

product_id	name	category
101	Laptop	Electronics
102	Headphones	Electronics
103	T-shirt	Clothing
104	Shoes	Footwear
105	Smartwatch	Electronics
106	Bag	Accessories
107	Jeans	Clothing
108	Keyboard	Electronics
109	Mouse	Electronics
110	Jacket	Clothing
111	Bottle	Home

products 1 x

Apply Revert

## SQL QUERY WHERE

MySQL Workbench

Local instance MySQL80 (eco... x

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Navigator

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Administration Schemas

Information

No object selected

Query 1 SQL File 2\* SQL File 3\* SQL File 4\* SQL File 6\* SQL File 5\* SQL File 7\* SQL File 8\* SQL File 9\*

```
1 • SELECT *
2 FROM products
3 WHERE category = 'Electronics';
```

Result Grid

product_id	name	category	price
101	Laptop	Electronics	55000.00
102	Headphones	Electronics	2500.00
105	Smartwatch	Electronics	3999.00
108	Keyboard	Electronics	999.00
109	Mouse	Electronics	699.00
114	Charger	Electronics	799.00

products 1 x

Apply Revert

Object Info Session Output

## SQL QUERY INNER JOIN

MySQL Workbench

Local instance MySQL80 (eco... x)

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Navigator: Query 1 SQL File 2\* SQL File 3\* SQL File 4\* SQL File 6\* x SQL File 5\* SQL File 7\* SQL File 8\* SQL File 9\*

SCHMAS

Filter objects

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Administration Schemas

Information

No object selected

```
1 • SELECT
2   order_items.order_id,
3   order_items.quantity,
4   products.product_id,
5   products.name,
6   products.category
7 FROM order_items
8 INNER JOIN products
9   ON order_items.product_id = products.product_id;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

order_id	quantity	product_id	name	category
1001	1	101	Laptop	Electronics
1002	1	102	Headphones	Electronics
1003	1	103	T-shirt	Clothing
1004	1	104	Shoes	Footwear
1005	1	105	Smartwatch	Electronics
1006	1	107	Jeans	Clothing
1007	1	108	Keyboard	Electronics
1008	1	109	Mouse	Electronics
1009	1	110	Jacket	Clothing
1010	1	111	Bottle	Home
1011	1	112	Phone Case	Accessories

## SQL QUERY LEFT JOIN

MySQL Workbench

Local instance MySQL80 (eco... x)

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Navigator: Query 1 SQL File 2\* SQL File 3\* SQL File 4\* SQL File 6\* SQL File 5\* x SQL File 7\* SQL File 8\* SQL File 9\*

SCHMAS

Filter objects

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Administration Schemas

Information

No object selected

```
1 • SELECT *
2 FROM order_items
3 WHERE order_id = 1001;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

order_item_id	order_id	product_id	quantity	unit_price
1	1001	101	1	55000.00
*	NULL	NULL	NULL	NULL

order items 1 x

Apply Revert

## SQL QUERY RIGHT JOIN

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'ecommerce\_db' selected. The main editor shows a SQL query using a RIGHT JOIN. The 'Result Grid' at the bottom displays the query results.

```
1 SELECT
2   products.product_id,
3   products.name,
4   order_items.order_id,
5   order_items.quantity
6 FROM products
7 LEFT JOIN order_items
8   ON products.product_id = order_items.product_id;
```

product_id	name	order_id	quantity
101	Laptop	1014	1
101	Laptop	1001	1
102	Headphones	1015	1
102	Headphones	1002	1
103	T-shirt	1021	1
103	T-shirt	1013	1
103	T-shirt	1003	1
104	Shoes	1025	1
104	Shoes	1004	1
105	Smartwatch	1029	1
105	Smartwatch	1005	1

## SQL FOR SUBQUERY

The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'SCHEMAS' tree with 'ecommerce\_db' selected. The main editor shows a SQL query using a subquery in a RIGHT JOIN. The 'Result Grid' at the bottom displays the query results.

```
1 SELECT
2   order_items.order_id,
3   order_items.quantity,
4   products.product_id,
5   products.name
6 FROM order_items
7 RIGHT JOIN products
8   ON order_items.product_id = products.product_id;
```

order_id	quantity	product_id	name
1014	1	101	Laptop
1001	1	101	Laptop
1015	1	102	Headphones
1002	1	102	Headphones
1021	1	103	T-shirt
1013	1	103	T-shirt
1003	1	103	T-shirt
1025	1	104	Shoes
1004	1	104	Shoes
1029	1	105	Smartwatch
1005	1	105	Smartwatch

## SQL QUERY FOR SUM

MySQL Workbench

Local instance MySQL80 (eco... x

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Administration Schemas

Information: No object selected

Query 1 SQL File 2\* SQL File 3\* SQL File 4\* SQL File 6\* SQL File 5\* SQL File 7\* SQL File 8\* SQL File 9\* x

```
1 SELECT *
2 FROM products
3 WHERE product_id IN (
4     SELECT product_id
5     FROM order_items
6 );
```

Result Grid

product_id	name	category	price
101	Laptop	Electronics	55000.00
102	Headphones	Electronics	2500.00
103	T-shirt	Clothing	799.00
104	Shoes	Footwear	1999.00
105	Smartwatch	Electronics	3999.00
107	Jeans	Clothing	1299.00
108	Keyboard	Electronics	999.00
109	Mouse	Electronics	699.00
110	Jacket	Clothing	2499.00
111	Bottle	Home	199.00
112	Phone Case	Accessories	299.00

products 1 x

Apply Revert

## SQL QUERY FOR AVG

MySQL Workbench

Local instance MySQL80 (eco... x

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Administration Schemas

Information: No object selected

SQL File 6\* SQL File 5\* SQL File 7\* SQL File 8\* SQL File 9\* SQL File 10\* x SQL File 11\* SQL File 12\* SQL File 13\*

```
1 SELECT
2     order_id,
3     (SELECT SUM(quantity)
4      FROM order_items oi
5      WHERE oi.order_id = o.order_id) AS total_items
6 FROM orders o;
```

Result Grid

order_id	total_items
1001	1
1002	1
1003	1
1004	1
1005	1
1006	1
1007	1
1008	1
1009	1
1010	1
1011	1

MySQL Workbench

Local instance MySQL80 (eco... x

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SQL File 6\* SQL File 5\* SQL File 7\* SQL File 8\* SQL File 9\* SQL File 10\* SQL File 11\* x SQL File 12\* SQL File 13\*

```
1 SELECT *
2 FROM products
3 WHERE price > (
4     SELECT AVG(price)
5     FROM products
6 );
```

Administration Schemas

Information: No object selected

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

product_id	name	category	price
101	Laptop	Electronics	55000.00

products 1 x Apply Revert