Week03 - Testing Database

SQL to check the tables

Q1. Check that each table will display the output presented in the individual tables

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| Code | Expected Output (Comment) | Actual Output (Screenshot) |
| SELECT \*  FROM customer; | All records display (10 records) |  |
| SELECT \*  FROM ordering; | All records display (10 records) |  |
| SELECT \*  FROM order\_item; | All records display (10 records) |  |
| SELECT \*  FROM outlet; | All records display (10 records) |  |
| SELECT \*  FROM payment; | All records display (10 records) |  |
| SELECT \*  FROM staff; | All records display (10 records) |  |

Q2. Show the output FROM two of the adjacent tables in turn – that is orders and item; users and item

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| Code | Expected Output (Comment) | Actual Output (Screenshot) |
| SELECT \*  FROM customer, ordering  WHERE  customer. customer\_id  = ordering.customer\_id; | Show all records FROM both tables (10 rows) | ISSUE: typo in *ordering* table, customer\_id column named “customer\_customer\_id” and *staff\_id* column named *staff\_staff\_id.* Fixed using:  [ALTER](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/alter-table.html) ordering CHANGE customer\_customer\_id customer\_id int(11) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL;  [ALTER](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/alter-table.html) [TABLE](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/alter-table.html) ordering CHANGE staff\_staff\_id staff\_id int(11) [NOT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_not) NULL;  Output once corrected: |
| SELECT \*  FROM order\_item, ordering  WHERE  order\_item.item\_no  = ordering.item\_no; | All records displayed (10 rows, joined on item\_no) |  |

Q3. Connect all three tables and display the output that shows the output FROM these three tables – customer, ordering and item.

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| Code | Expected Output (Comment) | Actual Output (Screenshot) |
| SELECT \*  FROM customer, order\_item, ordering  WHERE  customer. customer\_id  = ordering.customer\_id  AND ordering.item\_no = order\_item.item\_no; | All records displayed (10 rows, joined on customer\_id and item\_no) |  |

Q4. Create a query that will show the customer and items – so link these two

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| Code | Expected Output (Comment) | Actual Output (Screenshot) |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html)  customer\_firstname, customer\_surname, order\_item  FROM customer, order\_item, ordering WHERE customer. customer\_id = ordering.customer\_id [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) ordering.item\_no = order\_item.item\_no; | Ten records displayed, customer first name, customer surname and items they have ordered. |  |

Q5. A manager wants to show a catalog of the items in the system – but only the following attributes showing: customer\_id, customer\_name, item\_price

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| Code | Expected Output (Comment) | Actual Output (Screenshot) |
| [SELECT](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/select.html)  customer\_id, customer\_firstname, customer\_surname, order\_item  FROM customer, order\_item, ordering WHERE customer. customer\_id = ordering.customer\_id [AND](http://localhost/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/8.0/en/logical-operators.html%23operator_and) ordering.item\_no = order\_item.item\_no; |  |  |