SET LINESIZE 120

SET pagesize 100

VARIABLE v\_date VARCHAR2 (10);

PROMPT 'Enter the invoice date in DD/MM/YYYY format:'

COLUMN customer\_name FORMAT A30 HEADING 'Customer Name'

COLUMN invoice\_id FORMAT A15 HEADING 'Invoice ID'

COLUMN order\_date FORMAT A15 HEADING 'Order Date'

COLUMN total\_amount HEADING 'Total Amount (MYR)'

COLUMN customer\_id FORMAT A15 HEADING 'Customer ID'

TTITLE LEFT 'Invoice Report ' SKIP 1

SELECT i.invoice\_id, i.order\_date, i.total\_amount, c.customer\_id

FROM invoice i

INNER JOIN customer c ON i.customer\_id = c.customer\_id

WHERE i.order\_date like '&v\_date';

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF;

SET LINESIZE 120

SET PAGESIZE 30

COLUMN product\_id FORMAT A20 HEADING 'Product ID'

COLUMN product\_name FORMAT A40 HEADING 'Product Name'

COLUMN warehouse\_id FORMAT A30 HEADING 'Warehouse ID'

COLUMN stock\_quantity FORMAT 9999 HEADING 'Stock Quantity'

TTITLE CENTER 'Current Inventory Levels by Product and Warehouse' SKIP 2

SELECT p.product\_id, p.product\_name, w.warehouse\_id, s.stock\_quantity

FROM product p

JOIN stock s ON p.product\_id = s.product\_id

JOIN warehouse w ON s.warehouse\_id = w.warehouse\_id

ORDER BY p.product\_id, w.warehouse\_id;

SET LINESIZE 120

SET PAGESIZE 30

SET VERIFY OFF

ACCEPT enter\_year PROMPT 'Enter the year to generate sales report: '

COLUMN customer\_id FORMAT A20 HEADING 'Customer ID'

COLUMN sales\_year FORMAT 9999 HEADING 'Year'

COLUMN total\_sales FORMAT 999999.99 HEADING 'Total Sales (RM)'

TTITLE LEFT 'Sales Report for Year &enter\_year' SKIP 1

SELECT c.customer\_id, TO\_CHAR(i.order\_date, 'YYYY') AS sales\_year, SUM(i.total\_amount) AS total\_sales

FROM customer c

JOIN invoice i ON c.customer\_id = i.customer\_id

WHERE TO\_CHAR(i.order\_date, 'YYYY') = '&enter\_year'

GROUP BY c.customer\_id, TO\_CHAR(i.order\_date, 'YYYY');

PROMPT 'Total amount of products in a single warehouse location'

PROMPT

PROMPT

COLUMN warehouse\_id HEADING 'Warehouse'

COLUMN location\_name HEADING 'Location Name'

COLUMN total\_products HEADING 'Amount'

TTITLE LEFT 'Total Amount of Products in a Warehouse Location'

SELECT w.warehouse\_id, l.location\_name, COUNT(s.product\_id) as total\_products

FROM warehouse w

JOIN location l ON w.location\_id = l.location\_id

LEFT JOIN stock s ON w.warehouse\_id = s.warehouse\_id

GROUP BY w.warehouse\_id, l.location\_name

ORDER BY total\_products DESC;

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF

6.2.2 Query/Report 2: Detail report of customers that purchased the most

Purpose: The purpose of this report is to inform about who's the most loyal customer and what is the maximum of a person willing to spend on our company

**SQL statement:**

PROMPT 'Most order purchased by customers'

PROMPT

PROMPT

COLUMN customer\_id HEADING 'Customer ID'

COLUMN cust\_name HEADING 'Customer Name'

COLUMN total\_purchase\_amount HEADING 'Total Purchase Amount'

TTITLE LEFT 'Most order purchased by customers'

SELECT c.customer\_id, c.cust\_name, SUM(sod.total\_price) as total\_purchase\_amount

FROM customer c

JOIN sales\_order so ON c.customer\_id = so.customer\_id

JOIN sales\_order\_detail sod ON so.order\_id = sod.order\_id

GROUP BY c.customer\_id, c.cust\_name

ORDER BY total\_purchase\_amount DESC;

TTITLE LEFT 'Most order purchased by customers'

SELECT \*

FROM (

SELECT c.customer\_id, c.cust\_name, SUM(sod.total\_price) as total\_purchase\_amount

FROM customer c

JOIN sales\_order so ON c.customer\_id = so.customer\_id

JOIN sales\_order\_detail sod ON so.order\_id = sod.order\_id

GROUP BY c.customer\_id, c.cust\_name

ORDER BY total\_purchase\_amount DESC

)

WHERE ROWNUM = 1;

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF

PROMPT 'Total amount of products'

ACCEPT v\_numberRows NUMBER DEFAULT 10 PROMPT 'Enter Row: '

COLUMN product\_name HEADING 'Product Name'

COLUMN total\_ordered HEADING 'Amount ordered'

TTITLE LEFT 'Total Amount of Products'

SELECT p.product\_name, SUM(sod.quantity) AS total\_ordered

FROM sales\_order\_detail sod

JOIN product p ON sod.product\_id = p.product\_id

WHERE ROWNUM <= '&v\_numberRows'

GROUP BY p.product\_name

ORDER BY total\_ordered DESC;

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF

SET LINESIZE 120

SET PAGESIZE 30

TTITLE CENTRE '----Sort customer name by A, S and N—- '

COLUMN customer\_id FORMAT A8 HEADING "Customer ID";

COLUMN cust\_name FORMAT A25 HEADING "Customer Name";

COLUMN cust\_phone FORMAT A12 HEADING "Customer Phone Number";

COLUMN cust\_email FORMAT A25 HEADING "Customer Email Address";

SELECT c.customer\_id, c.cust\_name, c.cust\_phone, c.cust\_email

FROM customer c

WHERE cust\_name LIKE 'A%'

OR cust\_name LIKE 'S%'

OR cust\_name LIKE 'N%';

CLEAR COLUMNS

CLEAR BREAKS

CLEAR COMPUTES

TTITLE OFF

SET LINESIZE 120

SET PAGESIZE 30

TTITLE CENTRE '----Location in Klang Valley—-'

ACCEPT l\_location\_id CHAR FORMAT A8 PROMPT 'Enter location ID: '

ACCEPT l\_location\_name CHAR FORMAT A25 PROMPT 'Enter location name: '

ACCEPT l\_address\_post\_code CHAR FORMAT A30 PROMPT 'Enter post code: '

COLUMN location\_id FORMAT A8 HEADING "Location ID";

COLUMN location\_name FORMAT A25 HEADING "Location Name";

COLUMN address\_post\_code FORMAT A30 HEADING "Post Code";

SELECT l.location\_id, l.location\_name, l.address\_post\_code

FROM location l

WHERE l.address\_post\_code BETWEEN '40000' AND '69999'

ORDER BY l.address\_post\_code DESC ;

CLEAR COLUMNS

CLEAR BREAKS

CLEAR COMPUTES

TTITLE OFF

SET LINESIZE 120

SET PAGESIZE 30

TTITLE CENTRE '----List of Location based on location id—-'

ACCEPT w\_warehouse\_id CHAR FORMAT A8 PROMPT 'Enter warehouse ID: '

ACCEPT l\_location\_id CHAR FORMAT A8 PROMPT 'Enter location ID: '

COLUMN warehouse\_id FORMAT A8 HEADING "Warehouse ID";

COLUMN location\_id FORMAT A8 HEADING "Location ID";

SELECT l.location\_id, w.warehouse\_id

FROM warehouse w

JOIN location l ON w.location\_id = l.location\_id

WHERE w.warehouse\_id BETWEEN 'W0000006' AND 'W0000013'

ORDER BY l.location\_id DESC ;

CLEAR COLUMNS

CLEAR BREAKS

CLEAR COMPUTES

TTITLE OFF

SET linesize 120

SET pagesize 30

PROMPT 'Customer order sorted by shipment date and amount'''

PROMPT

PROMPT

COLUMN customer\_id FORMAT A8 HEADING "Customer ID"

COLUMN customer\_name FORMAT A25 HEADING "Customer Name"

COLUMN shipment\_date FORMAT A11 HEADING "Shipment Date"

COLUMN total\_amount FORMAT 99999.99 HEADING "Amount"

TTITLE RIGHT 'Page No: ' FORMAT 999 SQL.PNO SKIP 2

SELECT c.customer\_id, c.cust\_name, s.shipment\_date, i.total\_amount

FROM customer c

JOIN sales\_order so ON c.customer\_id = so.customer\_id

JOIN shipment s ON so.shipment\_id = s.shipment\_id

JOIN invoice i ON c.customer\_id = i.customer\_id AND so.order\_id = i.order\_id

ORDER BY s.shipment\_date DESC, i.total\_amount DESC;

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF

ACCEPT product\_id PROMPT 'Enter product ID: '

COLUMN product\_id FORMAT A12 HEADING "Product ID"

COLUMN product\_name FORMAT A25 HEADING "Product Name"

COLUMN location\_id FORMAT A12 HEADING "Location ID"

COLUMN stock\_quantity FORMAT 99999 HEADING "Stock Quantity"

SELECT p.product\_id, w.location\_id, p.product\_name, SUM(s.stock\_quantity) AS total\_quantity

FROM product p

JOIN stock s ON p.product\_id = s.product\_id

JOIN warehouse w ON s.warehouse\_id = w.warehouse\_id

WHERE p.product\_id = '&product\_id'

GROUP BY p.product\_id, w.location\_id, p.product\_name

HAVING COUNT(DISTINCT w.warehouse\_id) > 1

ORDER BY total\_quantity DESC;

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF

COLUMN customer\_id FORMAT A12 HEADING "Customer ID"

COLUMN order\_date FORMAT A15 HEADING "Order Date"

COLUMN product\_name FORMAT A25 HEADING "Product Name"

COLUMN quantity FORMAT 99999 HEADING "Quantity"

COLUMN total\_amount FORMAT 99999.99 HEADING "Total Amount"

BREAK ON Customer\_ID ON Order\_date

ACCEPT customer\_id PROMPT 'ENTER CUSTOMER ID : '

SELECT c.customer\_id as Customer\_ID, i.order\_date as Order\_date, p.product\_name

FROM customer c

JOIN sales\_order so ON c.customer\_id = so.customer\_id

JOIN invoice i ON so.order\_id = i.order\_id

JOIN shipment s ON so.shipment\_id = s.shipment\_id

JOIN sales\_order\_detail sod ON so.order\_id = sod.order\_id

JOIN product p ON sod.product\_id = p.product\_id

WHERE c.customer\_id = '&customer\_id'

ORDER BY i.order\_date;

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF

BREAK ON SUPPLIER

SET linesize 120

SET pagesize 30

ACCEPT supplier\_name PROMPT 'Enter supplier name: '

PROMPT

PROMPT 'Total amount of product supplied by &supplier\_name '

PROMPT

COLUMN supplier\_name FORMAT A25 HEADING "Supplier Name"

COLUMN product\_name FORMAT A25 HEADING "Product Name"

COLUMN total\_quantity\_supplied FORMAT 99999 HEADING "Total Quantity Supplied"

TTITLE RIGHT 'Page No: ' SQL.PNO SKIP 2

SELECT s.supplier\_name AS Supplier, p.product\_name AS Product\_Name, SUM(poi.POIquantity) AS total\_quantity\_supplied

FROM supplier s

JOIN purchase\_order po ON s.supplier\_id = po.supplier\_id

JOIN purchase\_order\_item poi ON po.purchase\_order\_id = poi.purchase\_order\_id

JOIN product p ON poi.product\_id = p.product\_id

WHERE s.supplier\_name = '&supplier\_name'

GROUP BY s.supplier\_name, p.product\_name

ORDER BY s.supplier\_name;

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF

BREAK ON CATEGORY

SET linesize 120

SET pagesize 30

PROMPT 'List of products by category and warehouse'

PROMPT

PROMPT

COLUMN description FORMAT A25 HEADING "Category";

COLUMN product\_name FORMAT A25 HEADING "Product";

COLUMN warehouse\_id FORMAT A8 HEADING "Warehouse";

TTITLE RIGHT 'Page No: ' FORMAT 999 SQL.PNO SKIP 2

SELECT c.description AS category, p.product\_name AS product, s.warehouse\_id AS warehouse

FROM category c

JOIN product p ON c.category\_id = p.category\_id

JOIN stock s ON p.product\_id = s.product\_id

GROUP BY c.description, p.product\_name , s.warehouse\_id

ORDER BY c.description;

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF

SET linesize 120

SET pagesize 30

PROMPT 'Numbers of customers assigned to each employee'

PROMPT

PROMPT

COLUMN employee\_name FORMAT A25 HEADING "Employee Name"

COLUMN num\_customers FORMAT 99999 HEADING "No. of customer"

RIGHT 'Page No: ' FORMAT 999 SQL.PNO SKIP 2

SELECT e.employee\_name, COUNT(c.customer\_id) as num\_customers

FROM employee e

JOIN customer c ON e.employee\_id = c.employee\_id

GROUP BY e.employee\_name

ORDER BY num\_customers DESC;

CLEAR COLUMNS

CLEAR BREAKS

TTITLE OFF