Exercise 5

1. Produce a list of rows showing sales date, product number, order number, sales amount, tax amount from the SALES table and sort it by column tax amount in ascending order.

2. Produce a list of rows showing sales date, product number, order number, sales amount, tax amount from the SALES table and sort it by column sales amount and tax amount in ascending order.

3. Produce a list of rows showing order number, sales date, product number, sales amount, tax amount from the SALES table and sort it by order number in descending order.

Copy and paste the below SQL's in SQL Developer and run them, You will get errors and try to correct those errors.

1.
```
SELECT SALES_DATE, PRODUCT_ID, ORDER_ID, SALES_AMOUNT, TAX_AMOUNT
FROM SALES
ORDER BY TAX_AMOUNT
WHERE SALES_DATE = '01-JAN-2015'
```

Answers:

```
1. SELECT sales_date, product_id, order_id, sales_amount,
   tax_amount FROM sales ORDER BY tax_amount;

2. SELECT sales_date, product_id, order_id, sales_amount,
   tax_amount FROM sales ORDER BY sales_amount, tax_amount;

3. SELECT order_id, sales_date, product_id, sales_amount,
   tax_amount FROM sales ORDER BY order_id DESC;
```

Answers for errors:

1) You will get an error "ORA-00933: SQL command not properly ended" when you run below SQL statement.

```
SELECT SALES_DATE, PRODUCT_ID, ORDER_ID, SALES_AMOUNT, TAX_AMOUNT
FROM SALES
ORDER BY TAX_AMOUNT
WHERE SALES_DATE = '01-JAN-2015'
```

It is throwing an error because you placed ORDER BY before WHERE clause. In order to correct this, move the ORDER BY TAX_AMOUNT after the WHERE clause. (ORDER BY should be the last statement in the SQL statement.)

```
SELECT SALES_DATE, PRODUCT_ID, ORDER_ID, SALES_AMOUNT, TAX_AMOUNT
FROM SALES
WHERE SALES_DATE = '01-JAN-2015'
ORDER BY TAX_AMOUNT
```