Exercise

1. Produce a list of ALL rows showing order number by combining data from SALES and SALES_HISTORY table.

2. Produce a list of DISTINCT rows from SALES and SALES_HISTORY table using column order number.

3. Produce a list of COMMON rows between SALES and SALES_HISTORY table using column order number.

4. Produce a list of rows which are present in SALES table and are not present in SALES_HISTORY table using column order number.

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 ORDER_ID,CUSTOMER_ID  FROM SALES
UNION  ALL
SELECT ORDER_ID  FROM SALES_HISTORY
```

2.
```
SELECT SALES_DATE, ORDER_ID  FROM SALES
UNION  ALL
SELECT PRODUCT_ID,  ORDER_ID  FROM SALES
```

Answers:

```
1. SELECT order_id FROM sales
   UNION ALL
   SELECT order_id FROM sales_history;

2. SELECT order_id FROM sales
   UNION
   SELECT order_id FROM sales_history;

3. SELECT order_id FROM sales
   INTERSECT
   SELECT order_id FROM sales_history;

4. SELECT order_id FROM sales
   MINUS
   SELECT order_id FROM sales_history;
```

Answers for errors:

1) You will get an error "ORA-01789: query block has incorrect number of result columns" when you run below SQL statement.

```
SELECT ORDER_ID, CUSTOMER_ID FROM SALES
UNION ALL
SELECT ORDER_ID FROM SALES_HISTORY
```

Correct the above SQL statement by adding ,CUSTOMER_ID in the second SQL statement. (Remember the number of columns in both the SQL statements should be the same.)

```
SELECT ORDER_ID, CUSTOMER_ID FROM SALES
UNION ALL
SELECT ORDER_ID, CUSTOMER_ID FROM SALES_HISTORY
```

2) You will get an error "ORA-01790: expression must have same datatype as corresponding expression" when you run below SQL statement.

```
SELECT SALES_DATE, ORDER_ID FROM SALES
UNION ALL
SELECT PRODUCT_ID, ORDER_ID FROM SALES
```

Correct the above SQL statement by replacing SALES_DATE with PRODUCT_ID in the first SQL statement or by replacing PRODUCT_ID with SALES_DATE in the second SQL statement (Remember the datatype of the columns in both the SQL statements should be the same.)

```
SELECT PRODUCT_ID, ORDER_ID FROM SALES
UNION ALL
SELECT PRODUCT_ID, ORDER_ID FROM SALES
```

```
SELECT SALES_DATE, ORDER_ID FROM SALES
UNION ALL
SELECT SALES_DATE, ORDER_ID FROM SALES
```