

# SQL LAB PRACTICE – 2

Creating the given sales table.

```
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SQL> connect system
Enter password:
Connected.
SQL> create table sales(sale_id number,product_id number, quantity_sold number, sale_date varchar(20),total_price binary
_double);
create table sales(sale_id number,product_id number, quantity_sold number, sale_date varchar(20),total_price binary_double)
*
ERROR at line 1:
ORA-00955: name is already used by an existing object

SQL> drop table sales
2
SQL> drop table sales;

Table dropped.

SQL> create table sales(sale_id number,product_id number, quantity_sold number, sale_date varchar(20),total_price binary
_double);

Table created.

SQL> insert into sales values(1,101,5,'2024-01-01',2500.00);

SQL> created.
SQL> insert into sales values(1,101,5,'2024-01-01',2500.00);

1 row created.

SQL> select sale_id,product_id,quantity_sold,sale_date,T0_CHAR(total_price,'
9999.99')As total_price from sales;
```

SALE_ID	PRODUCT_ID	QUANTITY_SOLD	SALE_DATE	TOTAL_PR
1	101	5	2024-01-01	2500.00
1	101	5	2024-01-01	2500.00

```
SQL> insert into sales values(2,102,3,'2024-01-02',900.00);

1 row created.

SQL> select sale_id,product_id,quantity_sold,sale_date,T0_CHAR(total_price,'9999.99')As total_price from sales;
```

SALE_ID	PRODUCT_ID	QUANTITY_SOLD	SALE_DATE	TOTAL_PRICE
1	101	5	2024-01-01	2500.00
2	102	3	2024-01-02	900.00
3	103	2	2024-01-02	60.00
4	104	4	2024-01-03	60.00
5	105	5	2024-01-03	90.00

```
SQL> select sale_id,quantity_sold from sales;
```

1. Retrieve all columns from the Sales table.

```
Run SQL Command Line
SQL> insert into sales values(5,105,5,'2024-01-03',90.00);
1 row created.
SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales;
  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
1         101         5 2024-01-01      2500.00
2         102         3 2024-01-02        900.00
3         103         2 2024-01-02         60.00
4         104         4 2024-01-03         80.00
5         105         5 2024-01-03         90.00
SQL> select sale_id,quantity_sold from sales;
```

2. Retrieve sale\_id and quantity\_sold from sales table.

```
Run SQL Command Line
SQL> insert into sales values(5,105,5,'2024-01-03',90.00);
1 row created.
SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales;
  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
1         101         5 2024-01-01      2500.00
2         102         3 2024-01-02        900.00
3         103         2 2024-01-02         60.00
4         104         4 2024-01-03         80.00
5         105         5 2024-01-03         90.00
SQL> select sale_id,quantity_sold from sales;
  SALE_ID QUANTITY_SOLD
-----
1         5
2         3
3         2
4         4
5         5
SQL> select sale_id,sale_date from sales;
  SALE_ID SALE_DATE
-----
1 2024-01-01
2 2024-01-02
3 2024-01-02
4 2024-01-03
5 2024-01-03
SQL> select TO_CHAR(total_price,'9999.99')As total_price from sales where to
tal_price>100;
  TOTAL_PRICE
-----
2500.00
```

3. Retrieve the sale\_id and sale\_date from the Sales table.

```
SQL> insert into sales values(5,105,5,'2024-01-03',90.00);
1 row created.

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')as total_price from sales;

  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
      1         101             5 2024-01-01      2500.00
      2         102             3 2024-01-02       900.00
      3         103             2 2024-01-02       60.00
      4         104             4 2024-01-03       80.00
      5         105             5 2024-01-03       90.00

SQL> select sale_id,quantity_sold from sales;

  SALE_ID QUANTITY_SOLD
-----
      1             5
      2             3
      3             2
      4             4
      5             5

SQL> select sale_id,sale_date from sales;

  SALE_ID SALE_DATE
-----
      1 2024-01-01
      2 2024-01-02
      3 2024-01-02
      4 2024-01-03
      5 2024-01-03

SQL> select TO_CHAR(total_price,'9999.99')as total_price from sales where to
tal_price>100;

TOTAL_PRICE
-----
2500.00
```

4. Filter the Sales table to show only sales with a total\_price greater than \$100.
5. Retrieve the sale\_id and total\_price from the Sales table for sales made on January 3, 2024.
6. Retrieve the sale\_id, product\_id, and total\_price from the Sales table for sales with a quantity\_sold greater than 4.
7. Retrieve all columns from the Sales table those sale\_id are 1, 3 & 5.
8. Retrieve all columns from the Sales table those total\_price between 90 and 1000.

```

Run SQL Command Line
3 2024-01-03
4 2024-01-03
5 2024-01-03

SQL> select TO_CHAR(total_price,'9999.99')as total_price from sales where total_price>100;

TOTAL_PRICE
-----
2500.00
900.00

SQL> select sale_id,TO_CHAR(total_price,'9999.99')as total_price from sales
where sale_date='2024-01-03';

SALE_ID TOTAL_PRICE
-----
4      80.00
5      90.00

SQL> select sale_id,product_id,TO_CHAR(total_price,'9999.99')as total_price from sales where quantity_sold>4;

SALE_ID PRODUCT_ID TOTAL_PRICE
-----
1         101    2500.00
5         105      90.00

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')as total_price from sales where sale_id in (1,3,5);

SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
1         101             5 2024-01-01    2500.00
3         103             3 2024-01-02      60.00
5         105             5 2024-01-03      90.00

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')as total_price from sales where total_price between 90 and 1000;

SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
2         102             3 2024-01-02      900.00
3         103             3 2024-01-02      60.00

```

9. Retrieve all columns from the Sales table those total\_price not between 90 and 1000.
10. Retrieve all columns from the Sales table those sale\_id are not in 1, 3 & 5.
11. Update total\_price as 500 in the Sales table those sale\_id are 1, 3 & 5.
12. delete from the Sales table those total\_price not between 90 and 1000.

```
Run SQL Command Line
SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales where total_price between 90 and 1000;
  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
      2       102           3 2024-01-02      900.00
      5       105           5 2024-01-03       90.00

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales where total_price not between 90 and 1000
;
  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
      1       101           5 2024-01-01      2500.00
      3       103           2 2024-01-02       60.00
      4       104           4 2024-01-03       80.00

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales where sale_id not in (1,3,5);
  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
      2       102           3 2024-01-02      900.00
      4       104           4 2024-01-03       80.00

SQL> update sales set total_price=500 where sale_id in (1,3,5);
3 rows updated.

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales;
  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
      1       101           5 2024-01-01      500.00
      2       102           3 2024-01-02      900.00
      3       103           2 2024-01-02      500.00
      4       104           4 2024-01-03       80.00
      5       105           5 2024-01-03      500.00

SQL> delete from sales where total_price between 90 and 1000;
4 rows deleted.
```

13. Sort all the records using sale\_id column in ascending order.
14. Sort all the records using sale\_id column in descending order.
15. Rename the sale\_id column as sales\_id.

```
SQL> delete from sales where total_price between 90 and 1000;
4 rows deleted.

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales;
  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE          TOTAL_PRICE
-----
      4         104           4 2024-01-03           88.88

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales order by sale_id;
  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE          TOTAL_PRICE
-----
      4         104           4 2024-01-03           88.88

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales order by sale_id desc;
  SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE          TOTAL_PRICE
-----
      4         104           4 2024-01-03           88.88

SQL> rename column sale_id to sales_id;
rename column sale_id to sales_id
*
ERROR at line 1:
ORA-00903: invalid table name

SQL> alter table sales rename column sale_id to sales_id;
Table altered.

SQL> select sale_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales order by sale_id desc;
select sales_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,'9999.99')As total_price from sales order by sale_id desc
*
ERROR at line 1:
ORA-00904: "SALE_ID": invalid identifier
```

16. Drop the column sales\_id.
17. Rename the table as tbl\_sales.
18. Drop the table.

```
Run SQL Command Line
ERROR at line 1:
ORA-00904: "SALES_ID": invalid identifier

SQL> select sales_id,product_id,quantity_sold,sale_date,TO_CHAR(total_price,
'9999.99')As total_price from sales;

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE      TOTAL_PRICE
-----
         4          104             4 2024-01-03         88.00

SQL> alter table drop column sales_id;
alter table drop column sales_id
*
ERROR at line 1:
ORA-00903: invalid table name

SQL> alter table sales drop column sales_id;

Table altered.

SQL> rename sales to tbl_sales;

Table renamed.

SQL> drop tbl_sales;
drop tbl_sales
*
ERROR at line 1:
ORA-00950: invalid DROP option

SQL> drop table tbl_sales;

Table dropped.

SQL>
```

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