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SQL LAB PRATICE -2

Create the following Sales table.

SALE_ID	PRODUCT_ID	QUANTITY_SOLD	SALE_DATE	TOTAL_PRICE
1	101	5	01-JAN-24	2500
2	102	3	02-JAN-24	900
3	103	2	02-JAN-24	60
4	104	4	03-JAN-24	80
5	105	6	03-JAN-24	90

1. **Retrieve all columns from the Sales table.**

```
SQL> select * from sales;

   SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         1        101             5 01-JAN-24        2500
         2        102             3 02-JAN-24         900
         3        103             2 02-JAN-24          60
         4        104             4 03-JAN-24          80
         5        105             6 03-JAN-24          90
```

2. **Retrieve sale_id and quantity_sold from sales table.**

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

   SALE_ID QUANTITY_SOLD
---------- -------------
         1             5
         2             3
         3             2
         4             4
         5             6
```

3. **Retrieve the sale_id and sale_date from the Sales table.**

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

   SALE_ID SALE_DATE
---------- ---------
         1 01-JAN-24
         2 02-JAN-24
         3 02-JAN-24
         4 03-JAN-24
         5 03-JAN-24
```

4. Filter the Sales table to show only sales with a total_price greater than $100.

```
SQL> select * from sales where total_price > 100;

   SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         1        101             5 01-JAN-24        2500
         2        102             3 02-JAN-24         900
```

5. Retrieve the sale_id and total_price from the Sales table for sales made on January 3, 2024.

```
SQL> select sale_id, total_price from sales where sale_date = TO_DATE('2024-01-03', 'YYYY-MM-DD');

   SALE_ID TOTAL_PRICE
---------- -----------
         4          80
         5          90
```

6. Retrieve the sale_id, product_id, and total_price from the Sales table for sales with a quantity_sold greater than 4.

```
SQL> select sale_id, product_id, total_price from sales where quantity_sold > 4;

   SALE_ID PRODUCT_ID TOTAL_PRICE
---------- ---------- -----------
         1        101        2500
         5        105          90
```

7. Retrieve all columns from the Sales table those sale_id are 1, 3 & 5.

```
SQL> select * from sales where sale_id in (1, 3, 5);

   SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         1        101             5 01-JAN-24        2500
         3        103             2 02-JAN-24          60
         5        105             6 03-JAN-24          90
```

8. Retrieve all columns from the Sales table those total_price between 90 and 1000.

```
SQL> select * from sales where total_price between 90 and 1000;

   SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         2        102             3 02-JAN-24         900
         5        105             6 03-JAN-24          90
```

9. Retrieve all columns from the Sales table those total_price not between 90 and 1000.

```
SQL> select * from sales where total_price not between 90 and 1000;

   SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         1        101             5 01-JAN-24        2500
         3        103             2 02-JAN-24          60
         4        104             4 03-JAN-24          80
```

10. Retrieve all columns from the Sales table those sale_id are not in 1, 3 & 5.

```
SQL> select * from sales where sale_id not in (1, 3, 5);

   SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         2        102             3 02-JAN-24         900
         4        104             4 03-JAN-24          80
```

11. Update total_price as 500 in the Sales table those sale_id are 1, 3 & 5.

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

3 rows updated.
```

12. delete from the Sales table those total_price not between 90 and 1000.

```
SQL> delete from sales where total_price not between 90 and 1000;

1 row deleted.
```

13. Sort all the records using sale_id column in ascending order.

```
SQL> select * from sales order by sale_id asc;

   SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         1        101             5 01-JAN-24         500
         2        102             3 02-JAN-24         900
         3        103             2 02-JAN-24         500
         5        105             6 03-JAN-24         500
```

14. Sort all the records using sale_id column in descending order.

```
SQL> select * from sales order by sale_id desc;

   SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         5        105             6 03-JAN-24         500
         3        103             2 02-JAN-24         500
         2        102             3 02-JAN-24         900
         1        101             5 01-JAN-24         500
```

15. Rename the sale_id column as sales_id;

```
SQL> alter table sales rename column sale_id to sales_id;

Table altered.

SQL> select * from sales;

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         1        101             5 01-JAN-24         500
         2        102             3 02-JAN-24         900
         3        103             2 02-JAN-24         500
         5        105             6 03-JAN-24         500
```

16. Drop the column sales_id.

```
SQL> alter table sales drop column sales_id;

Table altered.

SQL> select * from sales;

PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ------------- --------- -----------
       101             5 01-JAN-24         500
       102             3 02-JAN-24         900
       103             2 02-JAN-24         500
       105             6 03-JAN-24         500
```

17. Rename the table as tbl_sales.

```
SQL> alter table sales rename to tbl_sales;

Table altered.

SQL> select * from sales;
select * from sales
              *
ERROR at line 1:
ORA-00942: table or view does not exist


SQL> select * from tbl_sales;

PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ------------- --------- -----------
       101             5 01-JAN-24         500
       102             3 02-JAN-24         900
       103             2 02-JAN-24         500
       105             6 03-JAN-24         500
```

18. Drop the table.

```
SQL> drop table tbl_sales;

Table dropped.

SQL> select * from tbl_sales;
select * from tbl_sales
              *
ERROR at line 1:
ORA-00942: table or view does not exist
```