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SQL COMMANDS

Create the following Sales table.

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	6	2024-01-03	90.00

```
SQL> create table Sales(Sale_id number,product_id number,quantity_sold number,sale_date date,total_price float);

Table created.

SQL> insert into Sales values(1,101,5,to_date('2024-01-01','YYYY-MM-DD'),2500.00);

1 row created.

SQL> insert into Sales values(2,102,3,to_date('2024-01-02','YYYY-MM-DD'),900.00);

1 row created.

SQL> insert into Sales values(3,103,2,to_date('2024-01-02','YYYY-MM-DD'),60.00);

1 row created.

SQL> insert into Sales values(4,104,4,to_date('2024-01-03','YYYY-MM-DD'),80.00);

1 row created.

SQL> insert into Sales values(5,105,6,to_date('2024-01-03','YYYY-MM-DD'),90.00);

1 row created.

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
```

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 * from Sales where sale_date = to_date('2024-01-03', 'YYYY-MM-DD');

   SALE_ID PRODUCT_ID QUANTITY_SOLD SALE_DATE TOTAL_PRICE
---------- ---------- ------------- --------- -----------
         4        104             4 03-JAN-24          80
         5        105             6 03-JAN-24          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;

   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.
```

16. Drop the column sales_id.

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

Table altered.
```

17. Rename the table as tbl_sales.

```
SQL> rename Sales to tbl_sales;

Table renamed.
```

18. Drop the table

```
SQL> drop table tbl_sales;

Table dropped.
```