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LAB ASSIGNMENT : SQL ASSIGNMENT-02

SQL Lab Practice-2

1. Retrieve all columns from the Sales table.

```
SQL>  create table Sales3_table(sale_id number(10),product_id number(10),quantity_sold number(10),sale_date date,total_price number(10,5));

Table created.

SQL> insert into Sales3_table values(1,101,5,'01-jan-2024',2500.00);

1 row created.

SQL>  insert into Sales3_table values(2,102,3,'02-jan-2024',900.00);

1 row created.

SQL> insert into Sales3_table values(3,103,2,'02-jan-2024',60.00);

1 row created.

SQL> insert into Sales2_table values(4,104,4,'03-jan-2024',80.00);

1 row created.

SQL> insert into Sales2_table values(5,105,6,'03-jan-2024',90.00);

1 row created.

SQL> insert into Sales3_table values(4,104,4,'03-jan-2024',80.00);

1 row created.

SQL> insert into Sales3_table values(5,105,6,'03-jan-2024',90.00);

1 row created.

SQL> select * from Sales3_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
```

2. Retrieve sale_id and quantity_sold from sales table.

```
SQL> select sale_id,quantity_sold
  2  from Sales3_table;

   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
  2  from Sales3_table;

   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 Sales3_table where sale_id in(101,102,103,104,105) or total_price > 90;

   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
  2  from Sales3_table
  3  where sale_date='03-jan-24';

   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,total_price,product_id
  2  from Sales3_table
  3  where quantity_sold > 4;

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

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

```
SQL> select *from Sales3_table 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 Sales3_table 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 Sales3_table 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 Sales3_table 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 sales3_table 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 sales3_table 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 Sales3_table 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 Sales3_table 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 Sales3_table rename column sale_id to sales_id;

Table altered.
```

16. Drop the column sales_id.

```
SQL> alter table Sales3_table
  2  drop column sales_id;

Table altered.

SQL> select *from Sales3_table;

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 Sales3_table rename to tbl_sales;

Table altered.
```

18. Drop the table.

```
SQL> commit;

Commit complete.

SQL> drop table tbl_sales;

Table dropped.
```