KSR INSTITUE FOR ENGINEERING AND TECHNOLOGY

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(AUTONOMOUS)

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DEPT:B.E(CSE) FINAL YEAR

TOPIC:ORACLE LAB TASK

DATE:08.08.2024

Create 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_table(sales_id number(5),product_id number(5),quantity_sold number(5), sales_date date,total_price number(10,5));

Query for create an row1:

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

Query for create an row2:

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

Query for create an row3:

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

Query for create an row4:

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

Query for create an row5:

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

Table created:

```
SQL>  create table sales_table(sales_id number(5),product_id number(5),quantity_sold number(5), sales_date date,total_price number(10,5) );

Table created.

SQL> insert into sales_table values(1,101,5,'01-01-2024',2500.00);
insert into sales_table values(1,101,5,'01-01-2024',2500.00)
                                         *
ERROR at line 1:
ORA-01843: not a valid month

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

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

1 row created.

SQL> select*from sales_table;

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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_table;

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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 sales_id,quantity_sold
  2  from sales_table;

  SALES_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 sales_id,sales_date
  2  from sales_table;

  SALES_ID SALES_DAT
---------- ---------
         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_table where sales_id in(101,102,103,104,105) or total_price > 90;

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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 sales_id,total_price
  2   from sales_table
  3    where sales_date='03-jan-24';

  SALES_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 sales_id,product_id,total_price
  2  from sales_table
  3  where quantity_sold >4;

  SALES_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.

```
QL> select *from sales_table where sales_id in(1,3,5);

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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.

```
QL> select *from sales_table where total_price between 90 and 1000;

 SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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.

```
QL> select *from sales_table where total_price not between 90 and 1000;

 SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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_table where sales_id not in(1,3,5);

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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_table set total_price=500 where sales_id in(1,3,5);

3 rows updated.

SQL> select *from sales_table;

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT TOTAL_PRICE
--------- ---------- ------------- --------- -----------
        1        101             5 01-JAN-24         500
        2        102             3 02-JAN-24         900
        3        103             2 02-JAN-24         500
        4        104             4 03-JAN-24          80
        5        105             6 03-JAN-24         500
```

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

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

1 row deleted.

SQL> select *from sales_table;

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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
```

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

```
SQL> select *from sales_table order by sales_id;

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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

SQL>
```

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

```
SQL> select *from sales_table order by sales_id desc;

  SALES_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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

SQL>
```

15.Rename the sale_id column as sales_id;

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

Table altered.

SQL> select*from sales_table;

  SALE_ID PRODUCT_ID QUANTITY_SOLD SALES_DAT 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_table drop column sale_id;

Table altered.

SQL> select*from sales_table;

PRODUCT_ID QUANTITY_SOLD SALES_DAT 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_table rename to tbl_sales;

Table altered.

SQL> select*from tbl_sales;

PRODUCT_ID QUANTITY_SOLD SALES_DAT 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

SQL>
```

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
```