DAY 2 – SQL COMMANDS

CREATE AND INSERT TABLE:

```
CREATE TABLE SALES_TABLE (SALE_ID NUMBER(10) PRIMARY KEY, PRODUCT_ID NUMBER(10), QUANTITY_SOLD NUMBER(10), SALE_DATE DATE_TOTAL_PRICE NUMBER(10,2));
INSERT INTO SALES_TABLE VALUES (1,101,5,TO_DATE('2024-01-01','YYYY-MM-DD'),2500.00);
INSERT INTO SALES_TABLE VALUES (2,102,3,TO_DATE('2024-01-02','YYYY-MM-DD'),60.00);
INSERT INTO SALES_TABLE VALUES (3,103,2,TO_DATE('2024-01-02','YYYY-MM-DD'),60.00);
INSERT INTO SALES_TABLE VALUES (4,104,4,TO_DATE('2024-01-03','YYYY-MM-DD'),80.00);
INSERT INTO SALES_TABLE VALUES (5,105,6,TO_DATE('2024-01-03','YYYY-MM-DD'),90.00);
SELECT *FROM SALES_TABLE;
```

| Results Ex | plain Des | cribe Sav | ed SQL | History |
|------------|-----------|-----------|--------|---------|
|------------|-----------|-----------|--------|---------|

| SALE_ID | PRODUCT_ID | QUANTITY_SOLD | SALE_DATE | TOTAL_PRICE |
|---------|------------|---------------|------------|-------------|
| 1 | 101 | 5 | 01/01/2024 | 2500 |
| 2 | 102 | 3 | 01/02/2024 | 900 |
| 3 | 103 | 2 | 01/02/2024 | 60 |
| 4 | 104 | 4 | 01/03/2024 | 80 |
| 5 | 105 | 6 | 01/03/2024 | 90 |

5 rows returned in 0.03 seconds <u>Download</u>

1. Retrieve all columns from the Sales table.

SELECT SALE_ID, PRODUCT_ID, QUANTITY_SOLD, TO_CHAR(SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE, TOTAL_PRICE FROM SALES_TABLE ORDER BY SALE_ID;

Results Explain Describe Saved SQL History

| SALE_ID | PRODUCT_ID | QUANTITY_SOLD | SALE_DATE | TOTAL_PRICE |
|---------|------------|---------------|------------|-------------|
| 1 | 101 | 5 | 2024-01-01 | 2500 |
| 2 | 102 | 3 | 2024-01-02 | 900 |
| 3 | 103 | 2 | 2024-01-02 | 60 |
| 4 | 104 | 4 | 2024-01-03 | 80 |
| 5 | 105 | 6 | 2024-01-03 | 90 |

2. Retrieve sale_id and quantity_sold from sales table.

SELECT SALE_ID, QUANTITY_SOLD FROM SALES_TABLE ORDER BY SALE_ID;

Results Explain Describe Saved SQL History

| 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.

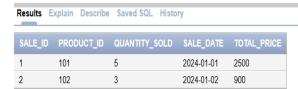
SELECT SALE_ID, TO_<u>CHAR(</u>SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE FROM SALES_TABLE ORDER BY SALE_<u>ID;</u>

Results Explain Describe Saved SQL History

| SALE_DATE |
|------------|
| 2024-01-01 |
| 2024-01-02 |
| 2024-01-02 |
| 2024-01-03 |
| 2024-01-03 |
| |

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

SELECT SALE ID, PRODUCT ID, QUANTITY SOLD, TO CHAR(SALE DATE, 'YYYY-MM-DD') AS SALE DATE, TOTAL PRICE FROM SALES TABLE WHERE TOTAL PRICE > 100 ORDER BY SALE ID;



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

SELECT SALE_ID, TOTAL_PRICE FROM SALES_TABLE WHERE SALE_DATE = TO_DATE('2024-01-03','YYYY-MM-DD');



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

SELECT SALE_ID, PRODUCT_ID, TOTAL_PRICE FROM SALES_TABLE WHERE QUANTITY_SOLD > 4 ORDER BY SALE_ID;

| Results | Explain | Describe | Saved SQL | History |
|---------|---------|----------|-----------|---------|
| | | | | |

| 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.

SELECT SALE ID, PRODUCT ID, QUANTITY SOLD, TO CHAR(SALE DATE, 'YYYY-MM-DD') AS SALE DATE, TOTAL PRICE FROM SALES TABLE WHERE SALE ID IN (1,3,5) ORDER BY SALE ID;



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

SELECT SALE_ID, PRODUCT_ID, QUANTITY_SOLD, TO_CHAR(SALE_DATE, 'YYYY-MM-DD') 4 SALE_DATE, TOTAL_PRICE FROM SALES_TABLE WHERE TOTAL_PRICE BETWEEN 90 AND 1000;



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

SELECT SALE ID, PRODUCT ID, QUANTITY SOLD, TO CHAR(SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE, TOTAL_PRICE FROM SALES_TABLE WHERE TOTAL_PRICE NOT BETWEEN 90 AND 1000 ORDER BY SALE_ID;

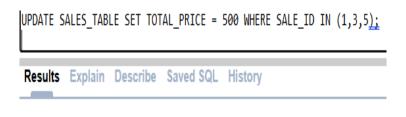


10. Retrieve all columns from the Sales table those sale_id are not in 1, 3 & 5.

SELECT SALE ID, PRODUCT ID, QUANTITY SOLD, TO CHAR(SALE DATE, 'YYYY-MM-DD') AS SALE DATE, TOTAL PRICE FROM SALES TABLE WHERE SALE ID NOT IN (1,3,5) ORDER BY SALE ID;

| Results E | xplain Describe | Saved SQL Histo | ry | |
|-----------|-----------------|-----------------|------------|-------------|
| SALE_ID | PRODUCT_ID | QUANTITY_SOLD | SALE_DATE | TOTAL_PRICE |
| 2 | 102 | 3 | 2024-01-02 | 900 |
| 4 | 104 | 4 | 2024-01-03 | 80 |

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



3 row(s) updated.

UPDATE SALES_TABLE SET TOTAL_PRICE = 500 WHERE SALE_ID IN (1,3,5);

SELECT SALE_ID, PRODUCT_ID, QUANTITY_SOLD, TO CHAR(SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE, TOTAL_PRICE FROM SALES_TABLE ORDER BY SALE_ID;

| SALE_ID | PRODUCT_ID | QUANTITY_SOLD | SALE_DATE | TOTAL_PRICE |
|---------|------------|---------------|------------|-------------|
| 1 | 101 | 5 | 2024-01-01 | 500 |
| 2 | 102 | 3 | 2024-01-02 | 900 |
| 3 | 103 | 2 | 2024-01-02 | 500 |
| 4 | 104 | 4 | 2024-01-03 | 80 |
| 5 | 105 | 6 | 2024-01-03 | 500 |

Results Explain Describe Saved SQL History

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



1 row(s) deleted.

DELETE FROM SALES_TABLE WHERE TOTAL_PRICE NOT BETWEEN 90 AND 1000;
SELECT SALE_ID,PRODUCT ID,QUANTITY SOLD,TO CHAR(SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE, TOTAL_PRICE FROM SALES_TABLE ORDER BY SALE_ID;

| Results | Explain Desc | ribe Saved SQ | L History | |
|---------|--------------|---------------|------------------|---------------|
| SALE_ID | PRODUCT_ | ID QUANTITY | /_SOLD SALE_DATE | E TOTAL_PRICE |
| 1 | 101 | 5 | 2024-01-01 | 500 |
| 2 | 102 | 3 | 2024-01-02 | 900 |
| 3 | 103 | 2 | 2024-01-02 | 500 |
| 5 | 105 | 6 | 2024-01-03 | 500 |

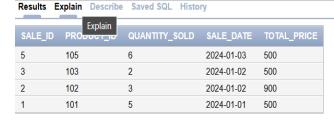
13. Sort all the records using sale_id column in ascending order.

SELECT SALE_ID, PRODUCT_ID, QUANTITY_SOLD, TO CHAR(SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE, TOTAL_PRICE FROM SALES_TABLE ORDER BY SALE_ID;



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

SELECT SALE_ID, PRODUCT_ID, QUANTITY_SOLD, TO_CHAR(SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE, TOTAL_PRICE FROM SALES_TABLE ORDER BY SALE_ID DESC;



15. Rename the sale_id column as sales_id:

ALTER TABLE SALES TABLE RENAME COLUMN SALE ID TO SALES ID;

| Results | Explain | Describe | Saved SQL | History |
|---------|---------|----------|-----------|---------|
| | | | | |

Table altered.

ALTER TABLE SALES_TABLE RENAME COLUMN SALE_ID TO SALES_ID;
SELECT SALES_ID, PRODUCT_ID, QUANTITY_SOLD, TO CHAR(SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE, TOTAL_PRICE FROM SALES_TABLE ORDER BY SALES_ID;

| Results | xplain Describe | Saved SQL History | 1 | |
|----------|-----------------|-------------------|------------|-------------|
| SALES_ID | PRODUCT_ID | QUANTITY_SOLD | SALE_DATE | TOTAL_PRICE |
| 1 | 101 | 5 | 2024-01-01 | 500 |
| 2 | 102 | 3 | 2024-01-02 | 900 |
| 3 | 103 | 2 | 2024-01-02 | 500 |
| 5 | 105 | 6 | 2024-01-03 | 500 |

16. Drop the column sales id.

ALTER TABLE SALES_TABLE DROP COLUMN SALES_ID;

| Results | Explain | Describe | Saved SQL | History |
|---------|---------|----------|-----------|---------|
| | | | | |

Table altered.

ALTER TABLE SALES_TABLE DROP COLUMN SALES_ID;
SELECT PRODUCT_ID,QUANTITY_SOLD,TO_CHAR(SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE, TOTAL_PRICE FROM SALES_TABLE ORDER BY PRODUCT_ID;

| Results Explain Describe Saved SQL History | | | | | | |
|--|-------|---------------|------------|-------------|--|--|
| PRODU | CT_ID | QUANTITY_SOLD | SALE_DATE | TOTAL_PRICE | | |
| 101 | | 5 | 2024-01-01 | 500 | | |
| 102 | | 3 | 2024-01-02 | 900 | | |
| 103 | | 2 | 2024-01-02 | 500 | | |
| 105 | | 6 | 2024-01-03 | 500 | | |

17. Rename the table as tbl_sales.

RENAME SALES_TABLE TO TBL_SALES;

Results Explain Describe Saved:

Statement processed.

RENAME SALES_TABLE TO TBL_SALES;
SELECT PRODUCT_ID,QUANTITY_SOLD,TO_CHAR(SALE_DATE, 'YYYY-MM-DD') AS SALE_DATE, TOTAL_PRICE FROM TBL_SALES ORDER BY PRODUCT_ID;



18. Drop the table.

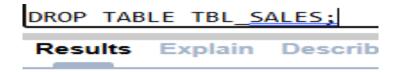


Table dropped.

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