

DATE & TIME FUNCTION

1) SELECT CURRENT_DATE FROM dual;

2) SELECT SYSDATE FROM dual;

3) ADD_MONTHS (date, number_months)

→ Eg:
SELECT
ADD_MONTHS ('15-FEB-2018', 2) AS MONTHS_ADDED FROM
dual;

4) MONTHS_BETWEEN (date1, date2)

→ Eg: SELECT
MONTHS_BETWEEN ('02-Aug-2003', '02-Jun-2003') AS
RESULT FROM dual;

Output: 2

NOTE: output can be in negative, decimal

Eg: SELECT
MONTHS_BETWEEN (TO_DATE ('2003/08/02', 'yyyy/mm/dd'),
TO_DATE ('2003/06/02', 'yyyy/mm/dd')) AS RESULT
FROM DUAL;

5) SELECT EXTRACT (DAY FROM DATE '2017-07-14') AS DAY
FROM dual;

→ output:

DAY
14

6) LAST_DAY (date);

NEXT_DAY (date, weekday); → Eg: SELECT NEXT_DAY ('15-FEB-2018',
'WEDNESDAY') AS RESULT FROM dual;

↓

Result
21-FEB-18

SUBQUERY

→ Rules: It is placed on right side of comparison operator.
ORDER BY CLAUSE cannot be added

occurs in: SELECT, FROM, WHERE, HAVING CLAUSE.

nested inside: SELECT, INSERT, UPDATE, DELETE STATEMENT

Eg:

Product	
Prod_Id	Pdt_Name
300	Toys
301	Rhymes
302	Shirt

Product_Sold	
Prod_Id	Sold out
300	10
301	4
302	5

Query to display product_id, Pdt_Name and Sold-out of those products which are sold better than the product with Id 302.

Solⁿ: 1) Query to return the sold-out of product id 302 from Product_Sold table

2) Query to identify the products which are sold better than result of first query

Select sold-out from Product_Sold where Product_Id = 302

↓
output: 5

Select Product_Id, Pdt_Name, Sold-out from Product, Product_Sold where sold-out > 5

↓
output:

Prod_Id	Pdt_Name	Sold-out
300	Toy	10
301	Rhymes	10
302	Shirt	10

X WRONG RESULT

(∵ there is no path checking)

★ To clarify which productid you were told, you can Alias, Eg: p.product_id

So, SELECT Product.Product_Id, Pdt_Name, Sold-out
FROM Product, Product_Sold
WHERE Product.Product_Id = Product_Sold.Product_Id
and Sold_Out > 5

↓
output:

Prod_Id	Pdt_Name	Sold-out
300	Toys	10

① + ② Select p.product_id, Pdt_Name, Sold-out from Product p, Product_Sold s where p.product_id = s.product_id and sold-out > [(select sold-out from Product_Sold where Product_Id = 302)]

↓ output = 5

(use: =) >ANY / <ANY
↑
(use: IN, ANY or ALL)

- (use: =) >ANY / <ANY
↑
(use: IN, ANY or ALL)

- Eg: `SELECT CONCAT('Hello', 'World')`
= HelloWorld
- HelloWorld (same function)
- k') → Work Work
- d') → 11
- `RPAD('Hello', 8, 'o')`
- sh
SH
- e') → 2
- e', 1, 2) → 7
- lo') → world
- starting appearance
- 'Hi') → HiWorld
- World

VIEWS → provide security
simplify complex queries
limit data access

Syntax: CREATE VIEW [view_name]
AS
[SELECT statement]

NORMAL Eg: CREATE VIEW CustomerInChennai
AS
SELECT Customer_Id, FirstName, Phone
FROM CUSTOMER WHERE City =
'Chennai';

GROUP
+
ORDER By: CREATE VIEW salesperorder
AS
SELECT Order_Id, SUM(Quantity) total_quantity
FROM PRODUCT_ORDERS

JOINS → have changes
GROUP BY ORDER_ID
ORDER BY totalquantity DESC;

UPDATE VIEW — Syntax: CREATE OR REPLACE [view_name]
AS
[SELECT statement]

DROP VIEW — DROP VIEW view_name

SET OPERATORS

UNION	UNION ALL	INTERSECT	MINUS
SELECT Col_name FROM table1			
UNION	UNION ALL	INTERSECT	MINUS
2			