

Assignment - 3
(Team Assignment)

Team Members:

Keerthanaa Kannan	001593845
Nency Panchani	002746779
Aashay Pawar	002134382
Pawan Kumar Krishnan	002743773

Q1) 10M

To store Brick color and shape we have a table called **BRICKS** with 2 columns **COLOR** and **SHAPE**. Data in table is as below:

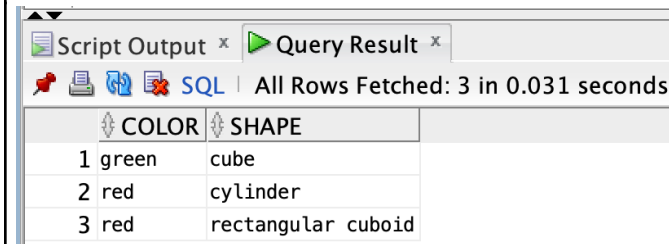
COLOR SHAPE

blue	cube
blue	cylinder
green	cube
red	cylinder
red	rectangular cuboid
yellow	rectangular cuboid

Create the above table and insert the rows in your own database instance (your TEAM's cloud database instance). You should identify the datatype and length of each column so that the provided data can be stored. Additionally, Write a query that will return the rows from this table where the value for COLOR is green or red in 2 different ways.

Query:

```
create table bricks(  
color varchar(255),  
shape varchar(255)  
);  
  
insert into bricks  
(color, shape)  
with mydata as(  
select 'blue', 'cube' from dual union all  
select 'blue', 'cylinder' from dual union all  
select 'green', 'cube' from dual union all  
select 'red', 'cylinder' from dual union all  
select 'red', 'rectangular cuboid' from dual union all  
select 'yellow', 'rectangular cuboid' from dual  
)  
select * from mydata;  
  
select * from bricks where color = 'green' or color = 'red';  
select * from bricks where color in ('green', 'red');
```

Screenshot:

The screenshot shows a database interface with two tabs: 'Script Output' and 'Query Result'. The 'Query Result' tab is active, displaying a table with 3 rows and 2 columns. The columns are labeled 'COLOR' and 'SHAPE'. The rows contain the following data:

	COLOR	SHAPE
1	green	cube
2	red	cylinder
3	red	rectangular cuboid

Q2) 10M

Create a table and store people's details in the table called **PEOPLE** with below data (FULL_NAME and HEIGHT_IN_CM are the columns and HEIGHT_IN_CM is a VARCHAR column and you should store data in table as provided below as-is)

FULL_NAME	HEIGHT_IN_CM
-----------	--------------

Mr. Tall	200 CM
----------	--------

Master Medium	170 CM
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Miss Tiny	140 CM
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Write a query to return rows for people 170cm and smaller.





Query:

```
create table people(  
full_name varchar(255),  
height_in_cm varchar(255)  
);  
  
insert into people  
(full_name, height_in_cm)  
with mydata as(  
select 'Mr. Tall', '200' from dual union all  
select 'Master Medium', '170' from dual union all  
select 'Miss Tiny ', '140' from dual  
)  
select * from mydata;  
  
select full_name, (height_in_cm || ' CM') as height_in_cm from people where height_in_cm <= '170';
```

Screenshot:

Script Output x

Query Result x



SQL | All Rows Fetched: 2 in 0.036 seconds

	FULL_NAME	HEIGHT_IN_CM
1	Master Medium	170 CM
2	Miss Tiny	140 CM

Q3) 20M

Use below connection details connect to the database

Username: `inventory_mgmt_ro` **password:** `EveryoneGetsAccess123#` **schema:** `inventory_mgmt`

wallet file: [Wallet_DAMG7370.zip](#) ☐

[Download Wallet_DAMG7370.zip](#)

You need to explore the 25 tables, understand the tables structure and write a query to show the below data.

PART_NBR	PART_NAME	SUPPLIER	PART_STATUS
----------	-----------	----------	-------------

-----	-----		
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AI5-4557	Acme Part AI5-4557	Acme Industries	In Stock
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TZ50828	Tilton Part TZ50828	Tilton Enterprises	In Stock
---------	---------------------	--------------------	----------

EI-T5-001	Eastern Part EI-T5-001	Eastern Importers	In Stock
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Query:

```
select a.part_nbr part_nbr, a.name part_name, b.name supplier, a.status part_status from
inventory_mgmt.PART a
inner join
(select * from inventory_mgmt.SUPPLIER) b
on b.supplier_id = a.supplier_id;
```

Screenshot:

Script Output x

Query Result x



SQL | All Rows Fetched: 3 in 0.039 seconds

	PART_NBR	PART_NAME	SUPPLIER	PART_STATUS
1	AI5-4557	Acme Part AI5-4557	Acme Industries	INSTOCK
2	TZ50828	Tilton Part TZ50828	Tilton Enterprises	INSTOCK
3	EI-T5-001	Eastern Part EI-T5-001	Eastern Importers	INSTOCK

Q4) 20M

Using same database connection details (as question 3), Find DAY wise total sales (output should show as below)

DAY_OF_WEEK	TOT_SALES
-------------	-----------

SUNDAY	396
--------	-----

WEDNESDAY	180
-----------	-----

MONDAY	112
--------	-----

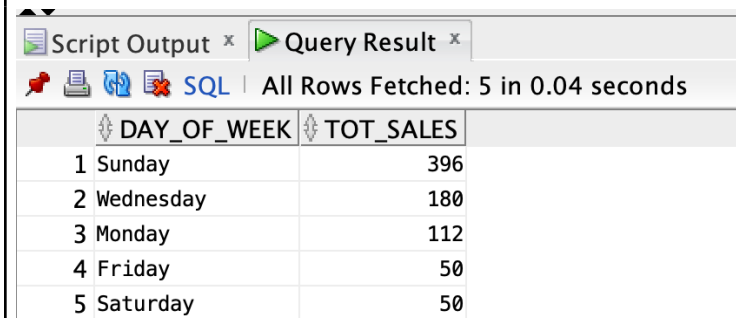
FRIDAY	50
--------	----

SATURDAY	50
----------	----

Query:

```
select day_of_week, sum(sale_price) tot_sales from
(select to_char(to_date(order_dt, 'dd-mm-yy'), 'Day') day_of_week, sale_price from
inventory_mgmt.DISPUTED_ORDERS where sale_price is not null)
group by day_of_week order by tot_sales desc;
```

Screenshot:



DAY_OF_WEEK	TOT_SALES
1 Sunday	396
2 Wednesday	180
3 Monday	112
4 Friday	50
5 Saturday	50

Q5) 10M

Using same database connection details (as question 3), Find DAY wise total sales (output should show as below. Output Similar to Question 4 however need the output transposed from rows to columns)

SUN	MON	TUE	WED	THU	FRI	SAT
396	112	0	180	0	50	50

Query:

select

```
sum(nvl(case when to_char(ORDER_DT,'DAY') like 'SUNDAY%' then SALE_PRICE END,0)) as sun
,sum(nvl(case when to_char(ORDER_DT,'DAY') like 'MON%' then SALE_PRICE END,0)) as mon
,sum(nvl(case when to_char(ORDER_DT,'DAY') like 'TUES%' then SALE_PRICE END,0)) as tue
,sum(nvl(case when to_char(ORDER_DT,'DAY') like 'WEDNESDAY' then SALE_PRICE END,0)) as wed
,sum(nvl(case when to_char(ORDER_DT,'DAY') like 'THURSD%' then SALE_PRICE END,0)) as thu
,sum(nvl(case when to_char(ORDER_DT,'DAY') like 'FRID%' then SALE_PRICE END,0)) as fri
,sum(nvl(case when to_char(ORDER_DT,'DAY') like 'SATURDA%' then SALE_PRICE END,0)) as sat
from inventory_mgmt.CUST_ORDER;
```

Screenshot:

Script Output x Query Result x

SQL | All Rows Fetched: 1 in 0.067 seconds

SUN	MON	TUE	WED	THU	FRI	SAT	
1	396	112	0	180	0	50	50

Q6) 20M

Using same database connection details (as question 3), Write a query to retrieves all the customer numbers and names in region 5 AND include all the customer numbers and names who ae with the sales representative 'MARTIN'

Query:

```
select a.cust_nbr, a.name from inventory_mgmt.CUSTOMER a where a.region_id = '5';
```

Screenshot:

CUST_NBR	NAME
1	1 Cooper Industries
2	2 Emblazon Corp.
3	3 Ditech Corp.
4	4 Flowtech Inc.
5	5 Gentech Industries

Query:

```

select a.cust_nbr, a.name, c.lname from inventory_mgmt.CUSTOMER a
inner join inventory_mgmt.cust_order b
on a.cust_nbr = b.cust_nbr
inner join inventory_mgmt.EMPLOYEE c
on c.emp_id = b.sales_emp_id
where lower(c.lname) like '%martin%' and a.region_id = 5 group by a.cust_nbr, a.name, c.lname;

```

Screenshot:

The screenshot shows a 'Query Result' window with a toolbar containing icons for redo, undo, redo, and a SQL icon. The status bar indicates 'All Rows Fetched: 1 in 0.026 seconds'. The result table has three columns: CUST_NBR, NAME, and LNAME. The first row contains the values 1, 4Flowtech Inc., and MARTIN.

CUST_NBR	NAME	LNAME
1	4Flowtech Inc.	MARTIN

Q7) 10M

Using same database connection details (as question 3), Write a query to print the monthly total sales for each region

Output should be as below

REGION	MONTH	SUM(O.TOT_SALES)

New England	January	1527645
New England	February	1847238
New England	March	1699449
New England	April	1792866
New England	May	1698855
New England	June	1510062
New England	July	1678002
New England	August	1642968
New England	September	1726767
New England	October	1648944
New England	November	1384185
New England	December	1599942
Mid-Atlantic	January	1832091
Mid-Atlantic	February	1286028
Mid-Atlantic	March	1911093
Mid-Atlantic	April	1623438
Mid-Atlantic	May	1778805
Mid-Atlantic	June	1504455
Mid-Atlantic	July	1820742

Mid-Atlantic	August	1381560
Mid-Atlantic	September	1178694
Mid-Atlantic	October	1530351
Mid-Atlantic	November	1598667
Mid-Atlantic	December	1477374
Southeast US	January	1137063
Southeast US	February	1855269
Southeast US	March	1967979
Southeast US	April	1830051
Southeast US	May	1983282
Southeast US	June	1705716
Southeast US	July	1670976
Southeast US	August	1436295
Southeast US	September	1905633
Southeast US	October	1610523
Southeast US	November	1661598
Southeast US	December	1841100

Query:

```
select a.name, b.month, b.tot_sales from inventory_mgmt.REGION a
inner join
(select region_id, to_char(to_date(month, 'MM'), 'Month') month, sum(tot_sales)*3 as tot_sales from
inventory_mgmt.ORDERS group by region_id, month order by region_id) b
on b.region_id = a.region_id;
```

Screenshot:

Same as **DISPLAYED** output.

Script Output x Query Result x		
All Rows Fetched: 72 in 0.086 seconds		
NAME	MONTH	TOT_SALES
1 New England	January	1527645
2 New England	February	1847238
3 New England	March	1699449
4 New England	April	1792866
5 New England	May	1698855
6 New England	June	1510062
7 New England	July	1678002
8 New England	August	1642968
9 New England	September	1726767
10 New England	October	1648944
11 New England	November	1384185
12 New England	December	1599942
13 Mid-Atlantic	January	1832091
14 Mid-Atlantic	February	1286028
15 Mid-Atlantic	March	1911093
16 Mid-Atlantic	April	1623438
17 Mid-Atlantic	May	1778805
18 Mid-Atlantic	June	1504455
19 Mid-Atlantic	July	1820742
20 Mid-Atlantic	August	1381560
21 Mid-Atlantic	September	1178694
22 Mid-Atlantic	October	1530351
23 Mid-Atlantic	November	1598667
24 Mid-Atlantic	December	1477374
25 Southeast US	January	1137063
26 Southeast US	February	1855269
27 Southeast US	March	1967979
28 Southeast US	April	1830051
29 Southeast US	May	1983282
30 Southeast US	June	1705716
31 Southeast US	July	1670976
32 Southeast US	August	1436295