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Lab CAT 1 | August 18, 2020

Questions in brief:

1. Create tables as instructed.

2. Populate the tables as directed in the QP.

3. Display the details of all customers.

4. Display the details of warehouse from where the order has been shipped on 10/08/2020.

5. List the details of orders placed by the customer "John".

6. Display the details of all items in descending order of price.

7. Display the item id, number of items and unit price ordered in the order number 2.

Solution:

Feedback ? Help 👤 sharadindu.adhikari2019@vitstudent.ac.in ⌄

SQL Worksheet   Clear   Find   Actions ⌄   Save   Run ▶

```
1  create table customer(
2      cust_id varchar2(2) primary key, cust_name varchar2(30) not null, cust_city varchar2(10) not null
3  );
4
5  create table orders(
6      order_id number(2) primary key, order_date date not null, cust_id varchar2(2) not null, order_amount number(5) not null
7  );
8
```

```
1  insert into customer
2  with names as(
3      select 'C1', 'Ann', 'ABC' from dual union all
4      select 'C2', 'John', 'ABC' from dual union all
5      select 'C3', 'Daniel', 'DEF' from dual union all
6      select 'C4', 'Bob', 'XYZ' from dual union all
7      select 'C5', 'Anna', 'PQR' from dual
8  )
9  select * from names
```

```
5 row(s) inserted.
```

SQL Worksheet

```
1   insert into orders
2   with names as(
3       select '1', '03JUL20', 'C2', 1000 from dual union all
4       select '2', '10JUL20', 'C1', 3000 from dual union all
5       select '3', '01AUG20', 'C2', 5000 from dual union all
6       select '4', '03AUG20', 'C3', 3000 from dual union all
7       select '5', '04AUG20', 'C2', 6000 from dual |
8   )
9   select * from names
```

```
5 row(s) inserted.
```

```
1   insert into order_item
2   with names as(
3       select 2, 14, 10 from dual union all
4       select 1, 11, 1| from dual
5   )
6   select * from names
```

```
2 row(s) inserted.
```

```
1    insert into item
2    with names as(
3        select 11, 1000 from dual union all
4        select 12, 1500 from dual union all
5        select 13, 120 from dual union all
6        select 14, 300 from dual
7    )
8    select * from names
```

4 row(s) inserted.

SQL Worksheet

```
1    insert into shipment
2    with names as(
3        select 1, 'W1', '10AUG20' from dual union all
4        select 2, 'W1', '10AUG20' from dual union all
5        select 3, 'W2', '10AUG20' from dual union all
6        select 4, 'W2', '05AUG20' from dual union all
7        select 5, 'W3', '11AUG20' from dual
8    )
9    select * from names
```

5 row(s) inserted.

SQL Worksheet

```
1  insert into warehouse
2  with names as(
3      select  'W1', 'Mumbai' from dual union all
4      select  'W2', 'Chennai' from dual union all
5      select  'W3', 'Delhi' from dual
6  )
7  select * from names
```

```
3 row(s) inserted.
```

Schema \

CUSTOMER

VALID
No
No

Syntax Help ⌄   Actions ⌄   **View All Objects**

Show All Table Attributes Columns Indexes Triggers Constraints

Owner	SQL_KNLSQUJYEUXCQQNDGUPOMOUOD

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	CUST_ID	VARCHAR2	2			No	Byte	
2	CUST_NAME	VARCHAR2	30			No	Byte	
3	CUST_CITY	VARCHAR2	10			No	Byte	

Indexes

Index Name	Index Type	Uniqueness	Status	Columns
SYS_C0035590118	NORMAL	UNIQUE	VALID	CUST_ID

Triggers

No triggers defined.

Constraints

Constraint	Type	Condition	On Delete	Status	Last Change	Invalid?
SYS_C0035590116	Check	"CUST_NAME" IS NOT NULL	-	ENABLED	58 minutes ago	-
SYS_C0035590117	Check	"CUST_CITY" IS NOT NULL	-	ENABLED	58 minutes ago	-
SYS_C0035590118	Primary Key	-	-	ENABLED	58 minutes ago	-

ITEM

Show All   Table Attributes   Columns   Indexes   Triggers   Constraints   ITEM

Status	VALID
Temporary	No
Nested	No
Owner	SQL_KNLSQUJYEUXCQQNDGUPOMOUOD

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	ITEM_ID	NUMBER	22	2	0	No		
2	UNIT_PRICE	NUMBER	22	5	0	No		

Indexes

Index Name	Index Type	Uniqueness	Status	Columns
SYS_C0035591102	NORMAL	UNIQUE	VALID	ITEM_ID

Triggers

No triggers defined.

Constraints

Constraint	Type	Condition	On Delete	Status	Last Change	Invalid?
SYS_C0035591101	Check	"UNIT_PRICE" IS NOT NULL	-	ENABLED	38 minutes ago	-
SYS_C0035591102	Primary Key	-	-	ENABLED	38 minutes ago	-

Schema .\

ORDERS

Show All   Table Attributes   Columns   Indexes   Triggers   Constraints

SQL_KNLSQUJYEUXCQQNDGUPOMOUOD

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	ORDER_ID	NUMBER	22	2	0	No		
2	ORDER_DATE	DATE	7			No		
3	CUST_ID	VARCHAR2	2			No	Byte	
4	ORDER_AMOUNT	NUMBER	22	5	0	No		

Indexes

Index Name	Index Type	Uniqueness	Status	Columns
SYS_C0035590643	NORMAL	UNIQUE	VALID	ORDER_ID

Triggers

No triggers defined.

Constraints

Constraint	Type	Condition	On Delete	Status	Last Change	Invalid?
SYS_C0035590640	Check	"ORDER_DATE" IS NOT NULL	-	ENABLED	48 minutes ago	-
SYS_C0035590641	Check	"CUST_ID" IS NOT NULL	-	ENABLED	48 minutes ago	-
SYS_C0035590642	Check	"ORDER_AMOUNT" IS NOT NULL	-	ENABLED	48 minutes ago	-
SYS_C0035592902	Foreign Key	-	NO ACTION	ENABLED	8 minutes ago	-
SYS_C0035590643	Primary Key	-	-	ENABLED	48 minutes ago	-

Schema \
Status   VALID

ORDER_ITEM

Nested   No

Show All Table Attributes Columns Indexes Triggers Constraints

Owner   SQL_KNLSQUJYEUXCQQNDGUPOMOUOD

Syntax Help ⌄   Actions ⌄   **View All Objects**

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	ORDER_ID	NUMBER	22	2	0	No		
2	ITEM_ID	NUMBER	22	2	0	No		
3	QUANTITY	NUMBER	22	2	0	No		

Indexes

Index Name	Index Type	Uniqueness	Status	Columns
SYS_C0035590951	NORMAL	UNIQUE	VALID	ITEM_ID

Triggers

No triggers defined.

Constraints

Constraint	Type	Condition	On Delete	Status	Last Change	Invalid?
SYS_C0035590949	Check	"ORDER_ID" IS NOT NULL	-	ENABLED	43 minutes ago	-
SYS_C0035590950	Check	"QUANTITY" IS NOT NULL	-	ENABLED	43 minutes ago	-
SYS_C0035592922	Foreign Key	-	NO ACTION	ENABLED	9 minutes ago	-
SYS_C0035593158	Foreign Key	-	NO ACTION	ENABLED	5 minutes ago	-
SYS_C0035590951	Primary Key	-	-	ENABLED	43 minutes ago	-

Schema \

SHIPMENT

SHIPMENT

Status   VALID

Show All Table Attributes Columns Indexes Triggers Constraints

No

Syntax Help ⌄   Actions ⌄   **View All Objects**

Nested	No
Owner	SQL_KNLSQUJYEUXCQQNDGUPOMOUOD

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	ORDER_ID	NUMBER	22	2	0	No		
2	WAREHOUSE_ID	VARCHAR2	2			No	Byte	
3	SHIP_DATE	DATE	7			Yes		

Indexes

No indexes defined.

Triggers

No triggers defined.

Constraints

Constraint	Type	Condition	On Delete	Status	Last Change	Invalid?
SYS_C0035591173	Check	"ORDER_ID" IS NOT NULL	-	ENABLED	40 minutes ago	-
SYS_C0035591174	Check	"WAREHOUSE_ID" IS NOT NULL	-	ENABLED	40 minutes ago	-
SYS_C0035593183	Foreign Key	-	NO ACTION	ENABLED	5 minutes ago	-
SYS_C0035593191	Foreign Key	-	NO ACTION	ENABLED	4 minutes ago	-

Schema \

WAREHOUSE

Syntax Help ⌄ | Actions ⌄ | View All Objects

Show All   Table Attributes   Columns   Indexes   Triggers   Constraints   WAREHOUSE

Status	VALID
Temporary	No
Nested	No
Owner	SQL_KNLSQUJYEUXCQQNDGUPOMOUOD

Columns

#	Column	Type	Length	Precision	Scale	Nullable	Semantics	Comment
1	WAREHOUSE_ID	VARCHAR2	2			No	Byte	
2	CITY	VARCHAR2	10			No	Byte	

Indexes

Index Name	Index Type	Uniqueness	Status	Columns
SYS_C0035591207	NORMAL	UNIQUE	VALID	WAREHOUSE_ID

Triggers

No triggers defined.

Constraints

Constraint	Type	Condition	On Delete	Status	Last Change	Invalid?
SYS_C0035591206	Check	"CITY" IS NOT NULL	-	ENABLED	39 minutes ago	-
SYS_C0035591207	Primary Key	-	-	ENABLED	39 minutes ago	-

1

```
1  select * from customer;
```

CUST_ID	CUST_NAME	CUST_CITY
C1	Ann	ABC
C2	John	ABC
C3	Daniel	DEF
C4	Bob	XYZ
C5	Anna	PQR

Download CSV

5 rows selected.

SQL Worksheet

⊘ Clear   🖊 Find   Actions ⌄

```
1    select warehouse_id from shipment where ship_date = '10AUG20';
```

▲

WAREHOUSE_ID
W1
W1
W2

Download CSV

SQL Worksheet

◇ Clear   ⚒ Find   Action

```
1   select * from orders where cust_id = 'C2';
```

ORDER_ID	ORDER_DATE	CUST_ID	ORDER_AMOUNT
1	03-JUL-20	C2	1000
3	01-AUG-20	C2	5000
5	04-AUG-20	C2	6000

Download CSV