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Batch D1

19BCE245

2 February 2021

Practical 2

Do as directed.

Questions numbered from 1 to 10 are completed in practical 1.

11. Change the city of Harsh to Bangalore.

SQL> ed

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1 * update client set city='Bangalore' where name='Harsh Desai'
```

SQL> /

1 row updated.

SQL> select name,city from client where name='Harsh Desai';

NAME	CITY
Harsh Desai	Bangalore

SQL> spool off;

12. Change the city of salesman to Pune. What is wrong in doing this type of query?

SQL> update salesman set city='Pune';

4 rows updated.

SQL> select salesmannname,city from salesman;

SALESMANNAME	CITY
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Aman Pune

Omkar Pune

Raj Pune

Ashish Pune

SQL> spool off;

• This will change all salesman's city from Mumbai to Pune. not only a specific salesman. So If we want to set the city of only one salesman then we must have to write a condition for name of the salesman in WHERE clause.

13. Delete all the salesmen whose salaries are equal to Rs. 3500.

SQL> delete from salesman where salamt=3500;

1 row deleted.

SQL> select * from salesman;

SALESM	SALESMANNAME	ADDRESS1	ADDRESS2
CITY	PINCODE STATE	SALAMT	TGTTTOGET YTDSALES
REMARKS			

S01	Aman	A/14	Worli	Pune
400002	Maharashtra	3000	100 50 Good	
S02	Omkar	65	Nariman	Pune
400001	Maharashtra	3000	200 100 Good	
S03	Raj	P-7	Bandra	Pune
400032	Maharashtra	3000	200 100 Good	

SQL> spool off;

14. Delete all the clients who live in "Tamil Nadu".

SQL> delete from client where state='Tamil Nadu';

1 row deleted.

SQL> select name,state from client;

NAME	STATE
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Ivan Bayross	Maharashtra
Chhaya Patel	Maharashtra
Ashni Joshi	Karnataka
Harsh Desai	Maharashtra
Deepak Sharma	Karnataka

SQL> spool off;

15. Add a column called "Telephone" of data type "Number" and size "10" to the client table.

SQL> alter table client add(Telephone number(10));

Table altered.

SQL> desc client;

Name
Null? Type

CLIENTNO
VARCHAR2(6)

NAME
VARCHAR2(20)

CITY
VARCHAR2(15)

PINCODE
NUMBER(8)

STATE
VARCHAR2(15)

BALDUE
NUMBER(10,5)

TELEPHONE
NUMBER(10)

SQL> spool off;

16. Change the size of sell price to 6, 2. Observe the behavior.

SQL> desc product;

Name Type

Null? Type

PRODUCTNO
VARCHAR2(6)

DESCRIPTION
VARCHAR2(15)

PROFITPERCENT
NUMBER(4,2)

UNITMEASURE
VARCHAR2(10)

QTYONHAND
NUMBER(8)

REORDERLVL
NUMBER(8)

SELLPRICE
NUMBER(8,2)

COSTPRICE
NUMBER(8,2)

SQL> select * from product;

PRODUC DESCRIPTION PROFITPERCENT UNITMEASUR QTYONHAND
REORDERLVL SELLPRICE COSTPRICE

P00001	1.44 Floppies	5 Piece	100	20	525	500
P03453	Monitors	6 Piece	10	3	12000	11200
P06734	Mouse	5 Piece	20	5	1050	500
P07865	1.22 Floppies	5 Piece	100	20	525	500
P07868	Keyboards	2 Piece	10	3	3150	3050

SQL> ed

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1 alter table product

2* modify sellprice number(6,2)

SQL> /

modify sellprice number(6,2)

*

ERROR at line 2:

ORA-01440: column to be modified must be empty to decrease precision or scale

SQL> spool off;

- Here if we have to decrease precision or scale, the column which has to be modified should be empty so that there will no loss of the data as we going from higher precision to lower precision.

17. Change the name of salesman table to sman.

SQL> rename salesman to sman;

Table renamed.

SQL> spool off;

18. Create a new table sales_order_new from sales_order containing data as well as structure.

SQL> create table sales_order_new as select * from sales_order;

Table created.

SQL> select * from sales_order_new;

ORDERN CLIENT ORDERSTA SALESM D B DELAYDAT ORDERSTATU

019001 C01 12-01-16 S01 F N 20-01-16 In Process

019002 C02 25-01-17 S02 P N 27-01-17 Cancelled

046865 C03 18-02-17 S03 F Y 20-02-17 Fullfilled

019003 C01 03-04-16 S01 F Y 07-04-16 Fullfilled

046866 C04 20-05-16 S04 P N 22-05-16 Cancelled

019008 C05 24-05-16 S05 F N 26-05-16 In Process

6 rows selected.

SQL> spool off;

19. Create a new table order_details from sales_order_details containing only the structure (no data).

SQL> create table order_details as select * from sales_order_details where 1=2;

Table created.

SQL> select * from order_details;

no rows selected

SQL> desc order_details;

Name
Null? Type

ORDERNO
VARCHAR2(6)

PRODUCTNO
VARCHAR2(6)

QTYORDERED
NUMBER(8)

PRODUCTRATE
NUMBER(10,2)

SQL> spool off;

20. Analyze the commit and rollback behavior of drop, delete and truncate command on sales_order_new.

SQL> select * from sales_order_new;

ORDERNO CLIENT ORDERSTA SALESM D B DELAYDAT ORDERSTATU

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019001 C01  12-01-16 S01  F N 20-01-16 In Process
019002 C02  25-01-17 S02  P N 27-01-17 Cancelled
046865 C03  18-02-17 S03  F Y 20-02-17 Fullfilled
019003 C01  03-04-16 S01  F Y 07-04-16 Fullfilled
046866 C04  20-05-16 S04  P N 22-05-16 Cancelled
019008 C05  24-05-16 S05  F N 26-05-16 In Process
```

6 rows selected.

SQL> delete from sales_order_new where clientno='C01';

2 rows deleted.

SQL> select * from sales_order_new;

ORDERNO CLIENT ORDERSTA SALESM D B DELAYDAT ORDERSTATU

019002 C02 25-01-17 S02 P N 27-01-17 Cancelled
 046865 C03 18-02-17 S03 F Y 20-02-17 Fullfilled
 046866 C04 20-05-16 S04 P N 22-05-16 Cancelled
 019008 C05 24-05-16 S05 F N 26-05-16 In Process

SQL> truncate table sales_order_new;

Table truncated.

SQL> select * from sales_order_new;

no rows selected

SQL> desc sales_order_new;

Name
 Null? Type

ORDERNO
 VARCHAR2(6)

CLIENTNO
 VARCHAR2(6)

ORDERSTATE
 DATE

SALESMANNO
 VARCHAR2(6)

DELAYTYPE
 CHAR(1)

BILLYN
 CHAR(1)

DELAYDATE
DATE

ORDERSTATUS
VARCHAR2(10)

SQL> drop table sales_order_new;

Table dropped.

SQL> desc sales_order_new;

ERROR:

ORA-04043: object sales_order_new does not exist

SQL> rollback;

Rollback complete.

SQL> spool off;

- *Objects deleted using DROP are permanently lost and it cannot be rolled back.*

Unlike TRUNCATE which only deletes the data of the tables, the DROP command deletes the data of the table as well as removes the entire structure of the table from the database.

- *The COMMIT command is the transactional command used to save changes invoked by a transaction to the database. The COMMIT command saves all the transactions to the database since the last COMMIT or ROLLBACK command.*

- *The ROLLBACK command is the transactional command used to undo transactions that have not already been saved to the database. This command can only be used to undo transactions since the last COMMIT or ROLLBACK command was issued.*