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Practical Questions:

1. Create a table with a name Sales_Order having columns order_no as primary key,

Order date should not be a null value, client_no, order_status, salesman_no.

CREATE TABLE Sales_Order (

order_no INT PRIMARY KEY,

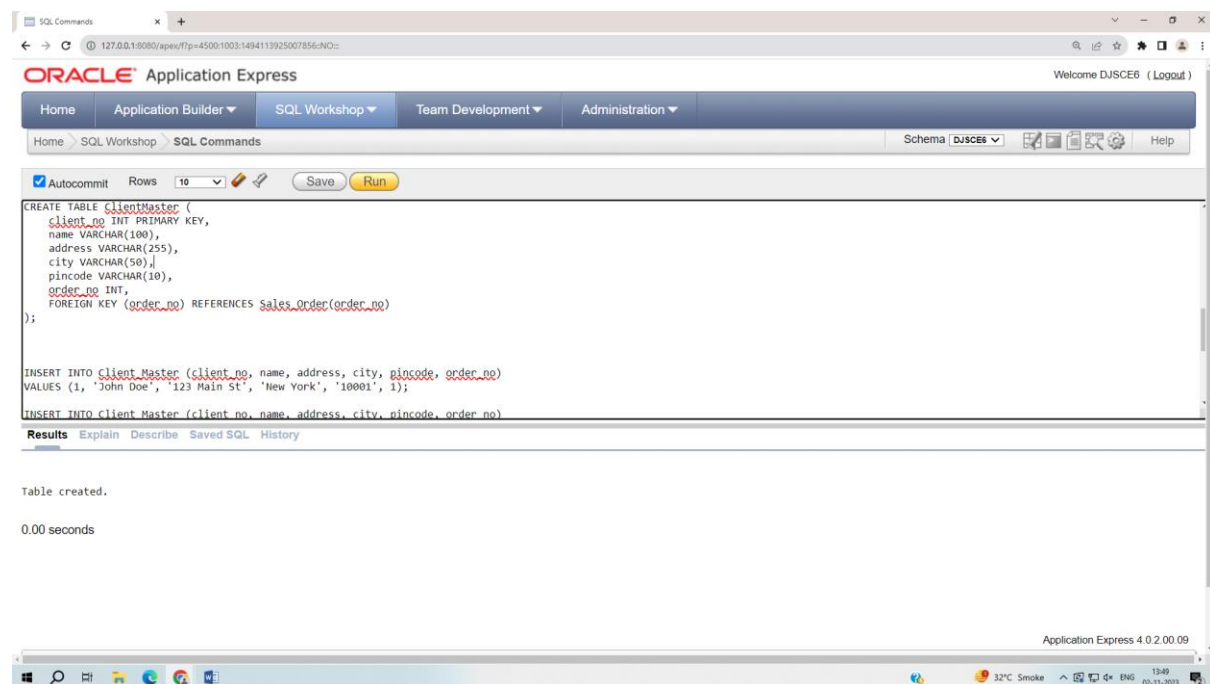
order_date DATE NOT NULL,

client_no INT,

order_status VARCHAR(50),

salesman_no INT

);



2. Insert the records in the table in such a way that few records should show constraint

violation for the columns order_no & order_date.

Order number

INSERT INTO Sales_Order (order_no, order_date, client_no, order_status, salesman_no)

VALUES (1, TO_DATE('2023-11-03', 'YYYY-MM-DD'), 1003, 'Delivered', 2003);

```
ORA-00001: unique constraint (DJSCE6.SYS_C008299) violated
```

Order Date:

```
INSERT INTO Sales_Order (order_no, client_no, order_status, salesman_no)
VALUES (4, 1004, 'Pending', 2004);
```

```
ORA-01400: cannot insert NULL into ("DJSCE6"."SALES_ORDER"."ORDER_DATE")
```

3. Display all the records of the Sales_Order table.

```
select * from Sales_order;
```

ORDER_NO	ORDER_DATE	CLIENT_NO	ORDER_STATUS	SALESMAN_NO
1	11/01/2023	1001	Pending	2001
2	11/02/2023	1002	Shipped	2002
3	11/04/2023	1003	Shipped	2002

3 rows returned in 0.00 seconds [Download](#)

4. Add the constraint to the Sales_Order table that client_no column should not have duplicate values & also it should allow null values to be inserted.

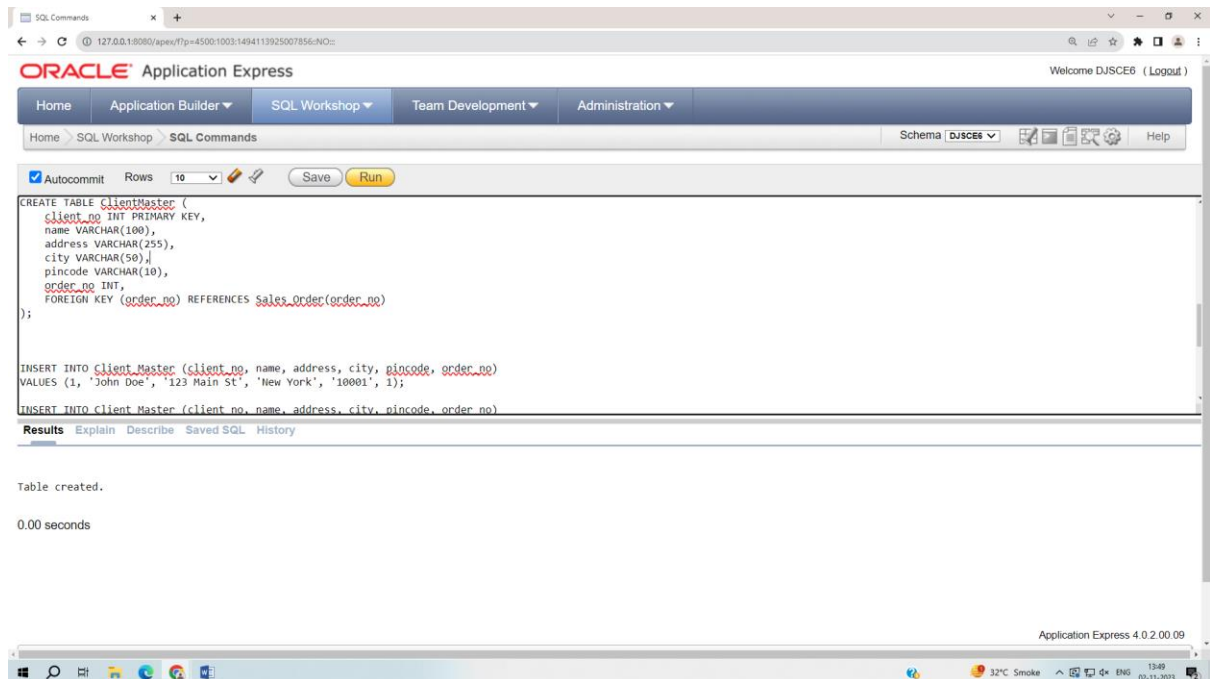
```
ALTER TABLE Sales_Order
```

```
ADD CONSTRAINT unique_client_no UNIQUE (client_no);
```

```
ORA-02261: such unique or primary key already exists in the table
```

5. Display all the records of the Sales_Order table.

6. Create a table with a name Client_Master having columns client_no as a primary key, name, address, city, pincode, order_no as foreign key referencing Sales_Order order_no.



7. Insert the records in the Client_Master table in such a way that few records should show constraint violation for the column order_no.

```
INSERT INTO Client_Master (client_no, name, address, city, pincode, order_no)
VALUES (4, 'Sue Davis', '101 Elm Blvd', 'Houston', '77004', 4);
```

ORA-00001: unique constraint (DJSCE6.SYS_C008301) violated

8. Display all the records of the Client_Master table.

```
select * from Client_Master;
```

CLIENT_NO	NAME	ADDRESS	CITY	PINCODE	ORDER_NO
1	John Doe	123 Main St	New York	10001	1
2	Jane Smith	456 Oak Ave	Los Angeles	90002	2
3	Bob Johnson	789 Pine Rd	Chicago	60603	3
5	Mike Williams	202 Cedar Ln	Phoenix	85001	-

9. Delete a record from the Client_Master table whose client_no is 1

```
DELETE FROM Client_Master
```

WHERE client_no = 1;

1 row(s) deleted.

0.00 seconds

10. Delete a record from the Sales_Order table whose order_no is 2.

DELETE FROM Sales_order

WHERE order_no = 2;

ORA-02292: integrity constraint (DJSCE6.SYS_C008302) violated - child record found

11. Update any one value of the order_no column to a new value of Sales_Order table.

UPDATE Sales_Order

SET order_no = 5

WHERE order_no = 1;

1 row(s) updated.

0.00 seconds

12. Create a table with name Client_Master1 having columns client_no as primary key, name, city & balance. Names starting with 'a', city should be either Mumabi or Delhi & balance should be greater than 1000.

CREATE TABLE Client_Master1 (

client_no INT PRIMARY KEY,

name VARCHAR(100),

city VARCHAR(50),

balance DECIMAL(10,2),

CONSTRAINT check_name_city

CHECK (SUBSTR(name, 1, 1) = 'a' AND (city IN ('Mumbai', 'Delhi')) AND balance > 1000)

);

Table created.

0.01 seconds

13. Insert the records in the table.

```
INSERT INTO Client_Master1 (client_no, name, city, balance)
VALUES (1, 'alice', 'Mumbai', 1500.00);
```

```
INSERT INTO Client_Master1 (client_no, name, city, balance)
VALUES (2, 'alex', 'Delhi', 2000.00);
```

```
INSERT INTO Client_Master1 (client_no, name, city, balance)
VALUES (4, 'Amy', 'Delhi', 2500.00);
```

1 row(s) inserted.

0.00 seconds

14. Display all the records of the table

```
Select * from Client_Master1;
```

CLIENT_NO	NAME	CITY	BALANCE
2	alex	Delhi	2000
1	alice	Mumbai	1500
4	amy	Delhi	2500

3 rows returned in 0.00 seconds

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