DB assignment 6

PARSHWA HERWADE

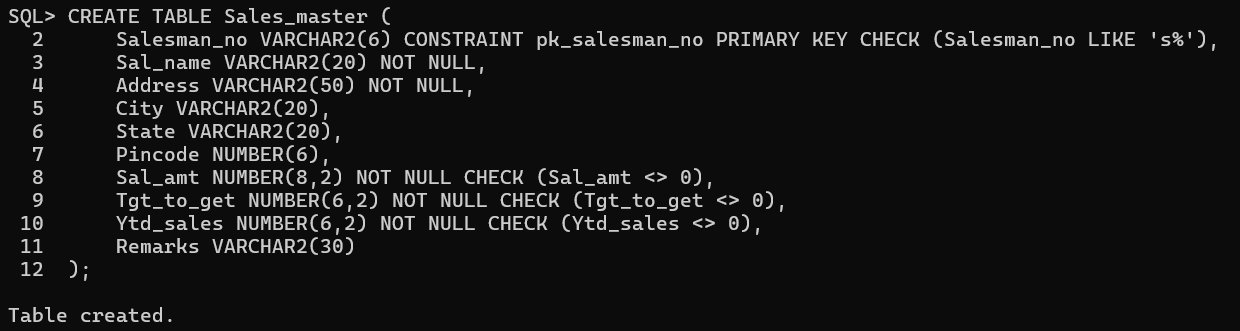
22510064,SY BTECH CSE

**Name: Implement queries on Constraints.**

Question 1. Create the following tables:

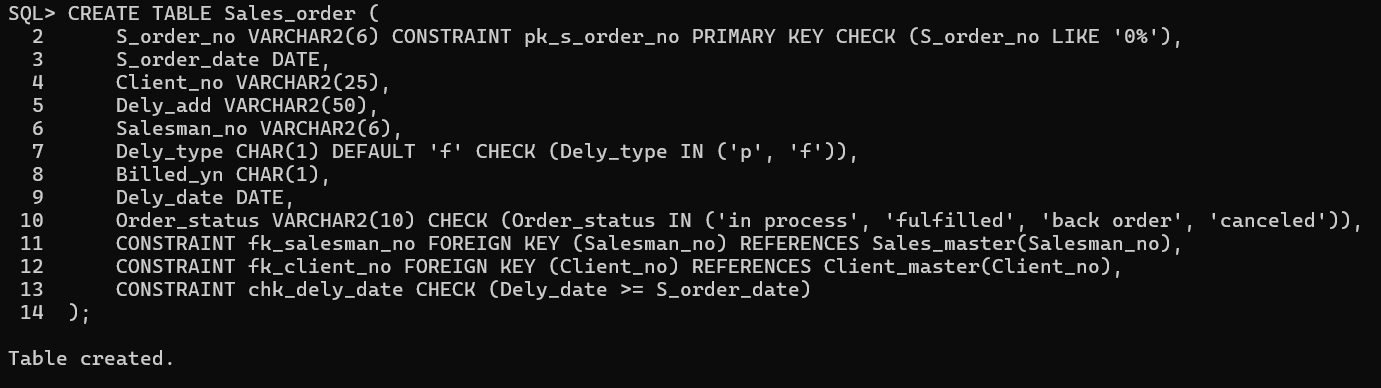
1. **Sales\_master**

|  |  |  |  |
| --- | --- | --- | --- |
| **Columnname** | **Datatype** | **Size** | **Attributes** |
| Salesman\_no | varchar2 | 6 | Primary key/first letter |
|  |  |  | must start with ‘s’ |
| Sal\_name | varchar2 | 20 | Not null |
| Address | varchar2 |  | Not null |
| City | varchar2 | 20 |  |
| State | varchar2 | 20 |  |
| Pincode | Number | 6 |  |
| Sal\_amt | Number | 8,2 | Not null, cannot be 0 |
| Tgt\_to\_get | Number | 6,2 | Not null, cannot be 0 |
| Ytd\_sales | Number | 6,2 | Not null, cannot be 0 |
| Remarks | Varchar2 | 30 |  |



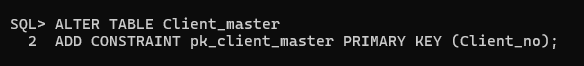
1. **Sales\_order**

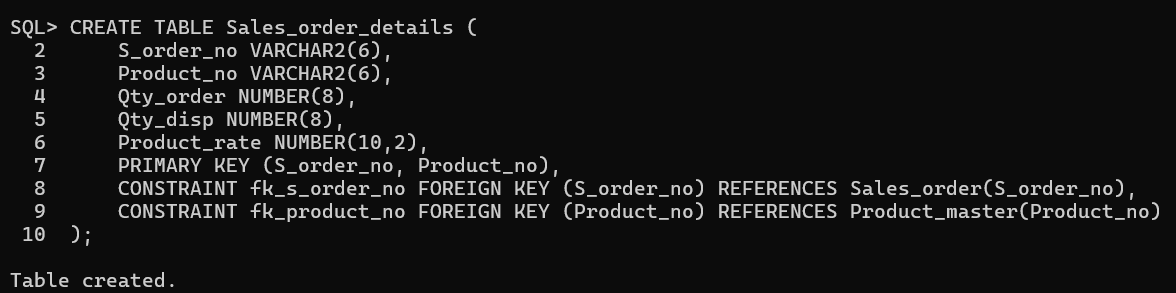
|  |  |  |  |
| --- | --- | --- | --- |
| **Columnname** | **Datatype** | **Size** | **Attributes** |
|  |  |  |  |
| S\_order\_no | varchar2 | 6 | Primary/first letter must be 0 |
|  |  |  |  |
| S\_order\_date | Date | 6 | Primary key reference clientno |
|  |  |  | of client\_master table |
|  |  |  |  |
| Client\_no | Varchar2 | 25 |  |
| Dely\_add | Varchar2 | 6 |  |
|  |  |  |  |
| Salesman\_no | Varchar2 | 6 | Foreign key references |
|  |  |  | salesman\_no of |
|  |  |  | salesman\_master table |
|  |  |  |  |
| Dely\_type | Char | 1 | Delivery part(p)/full(f),default f |
|  |  |  |  |
| Billed\_yn | Char | 1 |  |
| Dely\_date | Date |  | Can not be lessthan |
|  |  |  | s\_order\_date |
| Order\_status | Varchar2 | 10 | Values (‘in |
|  |  |  | process’;’fulfilled’;back |
|  |  |  | order’;’canceled |

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**. Sales\_order\_details**

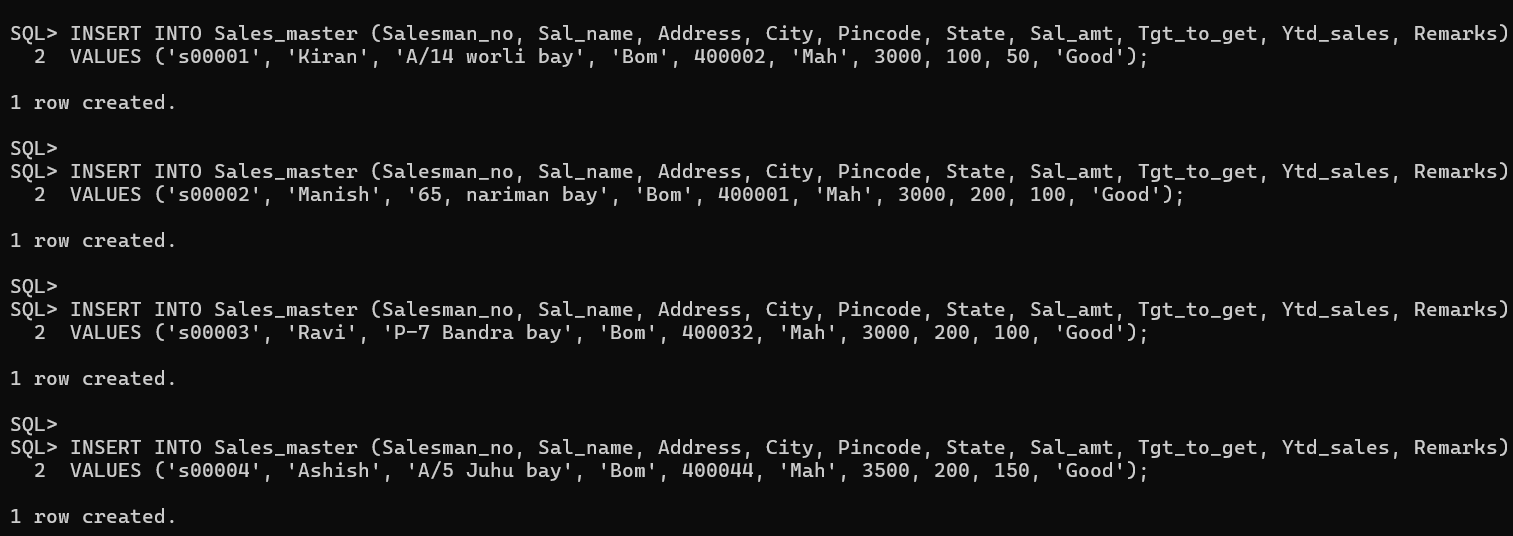
|  |  |  |  |
| --- | --- | --- | --- |
| **Column** | **Datatype** | **Size** | **Attributes** |
|  |  |  |  |
| S\_order\_no | Varchar2 | 6 | Primary key/foreign |
|  |  |  | key references |
|  |  |  | s\_order\_no of |
|  |  |  | sales\_order |
| Product\_no | Varchar2 | 6 | Primary key/foreign |
|  |  |  | key references |
|  |  |  | product\_no of |
|  |  |  | product\_master |
| Qty\_order | Number | 8 |  |
| Qty\_disp | Number | 8 |  |
| Product\_rate | Number | 10,2 |  |
|  |  |  |  |
|  |  |  |  |





**Data for sales\_man master table**

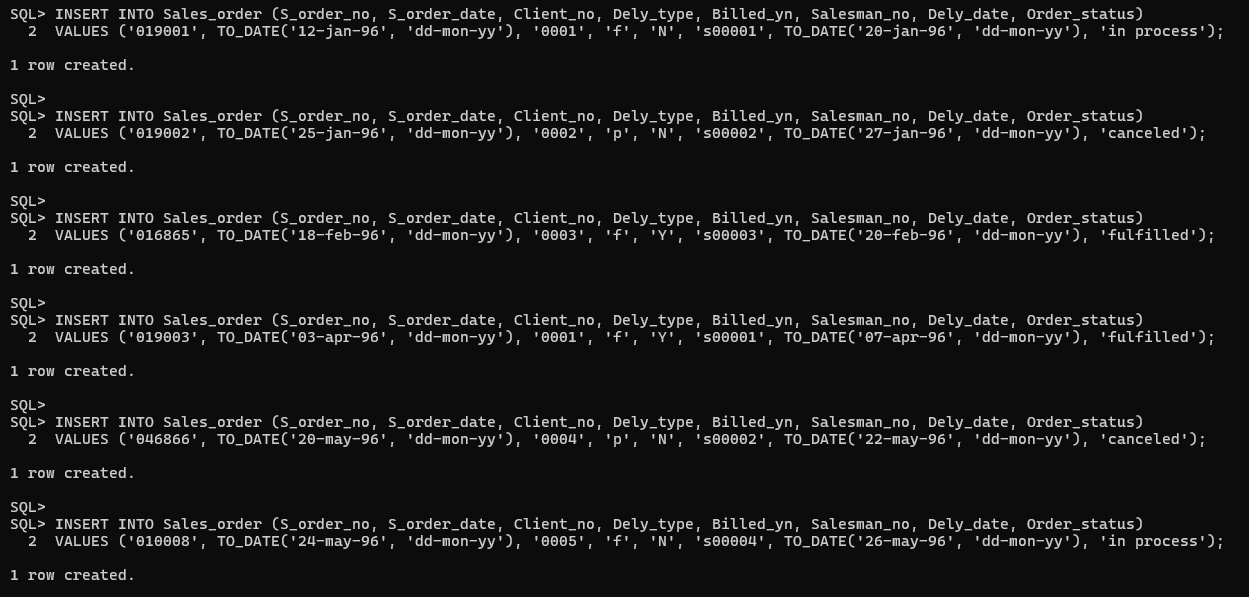
|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Salesman\_** | **Salesman** | **Address** | **City** | **Pin** | **State** | **Salamt** | **Tgt\_to\_get** | **Ytd** | **Rem** |
| **no** | **name** |  |  | **code** |  |  |  | **Sales** |  |
| s00001 | Kiran | A/14 | Bom | 400002 | Mah | 3000 | 100 | 50 | Good |
|  |  | worli | bay |  |  |  |  |  |  |
| s00002 | Manish | 65,narim | Bom | 400001 | Mah | 3000 | 200 | 100 | Good |
|  |  | an | bay |  |  |  |  |  |  |
| s00003 | Ravi | P-7 | Bom | 400032 | Mah | 3000 | 200 | 100 | Good |
|  |  | Bandra | bay |  |  |  |  |  |  |
| s00004 | Ashish | A/5 | Bom | 400044 | Mah | 3500 | 200 | 150 | Good |
|  |  | Juhu | bay |  |  |  |  |  |  |



(ii)

**Data for salesorder table:**

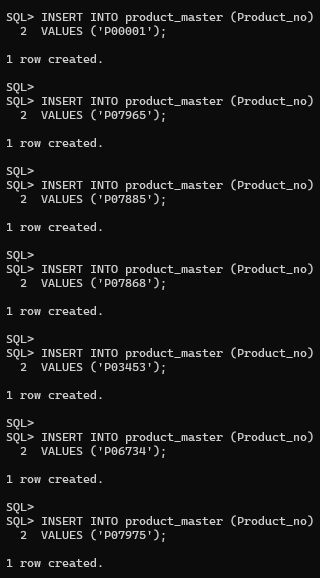
|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| S\_orderno | S\_orderdate | Client no | Dely | Bill | Salesman no | Delay | Orderstatus |
|  |  |  | type | yn |  | date |  |
| 019001 | 12-jan-96 | 0001 | F | N | s00001 | 20-jan- | Ip |
|  |  |  |  |  |  | 96 |  |
| 019002 | 25-jan-96 | 0002 | P | N | s00002 | 27-jan- | C |
|  |  |  |  |  |  | 96 |  |
| 016865 | 18-feb-96 | 0003 | F | Y | s00003 | 20-feb- | F |
|  |  |  |  |  |  | 96 |  |
| 019003 | 03-apr-96 | 0001 | F | Y | s00001 | 07-apr- | F |
|  |  |  |  |  |  | 96 |  |
| 046866 | 20-may-96 | 0004 | P | N | s00002 | 22- | C |
|  |  |  |  |  |  | may-96 |  |
| 010008 | 24-may-96 | 0005 | F | N | s00004 | 26- | Ip |
|  |  |  |  |  |  | may-96 |  |

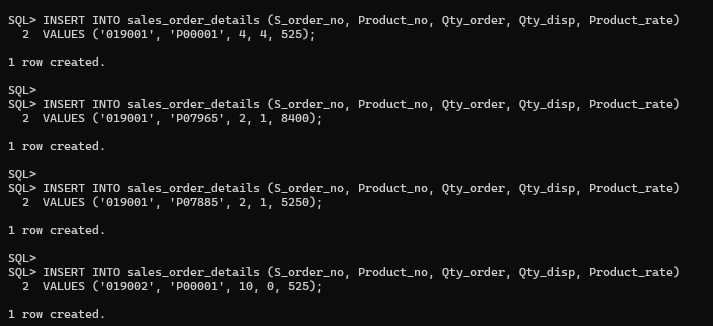


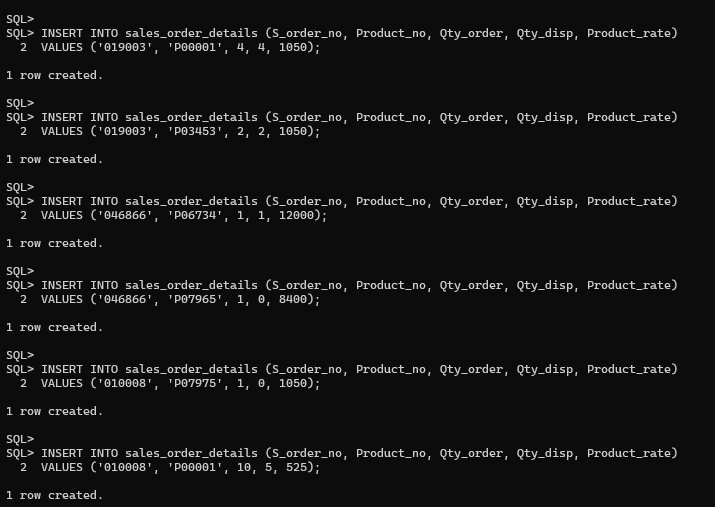
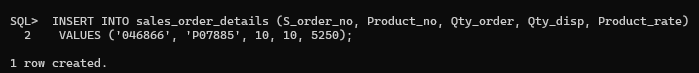
(iii)

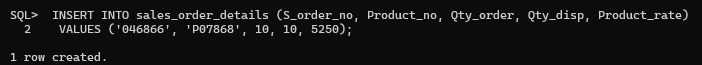
**Data for sales\_order\_details table:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S\_order no | Product no | Qty ordered | Qty disp | Product\_rate |
| 019001 | P00001 | 4 | 4 | 525 |
| 019001 | P07965 | 2 | 1 | 8400 |
| 019001 | P07885 | 2 | 1 | 5250 |
| 019002 | P00001 | 10 | 0 | 525 |
| 046866 | P07868 | 3 | 3 | 3150 |
| 046866 | P07885 | 10 | 10 | 5250 |
| 019003 | P00001 | 4 | 4 | 1050 |
| 019003 | P03453 | 2 | 2 | 1050 |
| 046866 | P06734 | 1 | 1 | 12000 |
| 046866 | P07965 | 1 | 0 | 8400 |
| 010008 | P07975 | 1 | 0 | 1050 |
| 010008 | P00001 | 10 | 5 | 525 |



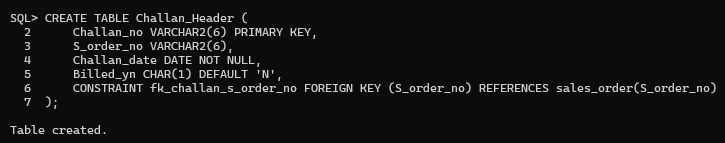




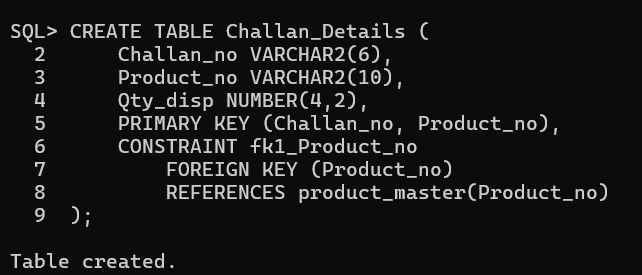
**Challan\_Header**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column name** | **data type** | **size** | **Attributes** |
| Challan\_no | varchar2 | 6 | Primary key |
| s\_order\_no | varchar2 | 6 | Foreign key references s\_order\_no of sales\_order table |
| challan\_date | date |  | not null |
| billed\_yn | char | 1 | values (‘Y’,’N’). Default ‘N’ |



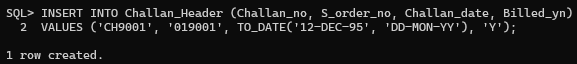
**Table Name : Challan\_Details**

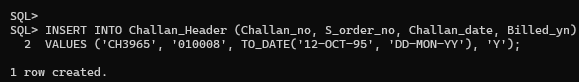
|  |  |  |  |
| --- | --- | --- | --- |
| Column name | data type | size | Attributes |
| Challan\_no | varchar2 | 6 | Primary key/Foreign key references Product\_no of product\_master |
| Qty\_disp | number | 4,2 | not null |

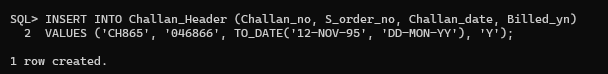


**Q2. Insert the following values into the challan header and challan\_details tables:**

|  |  |  |  |
| --- | --- | --- | --- |
| Challan No | S\_order No | Challan Date | Billed |
| CH9001 | 019001 | 12-DEC-95 | Y |
| CH865 | 046866 | 12-NOV-95 | Y |
| CH3965 | 010008 | 12-OCT-95 | Y |







**Data for challan\_details table**

|  |  |  |
| --- | --- | --- |
| Challan No | Product No | Qty Disp |
| CH9001 | P00001 | 4 |
| CH9001 | P07965 | 1 |
| CH9001 | P07885 | 1 |
| CH865 | P07868 | 3 |
| CH865 | P03453 | 4 |
| CH865 | P00001 | 10 |
| CH3965 | P00001 | 5 |
| CH3965 | P07975 | 2 |



**Answer the following Questionries**

Q1. Make the primary key to client\_no in client\_master.

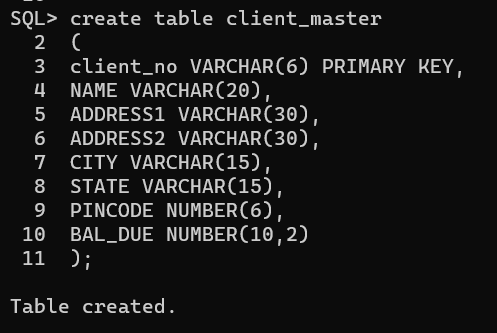
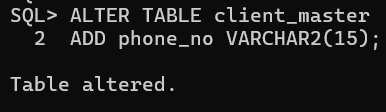
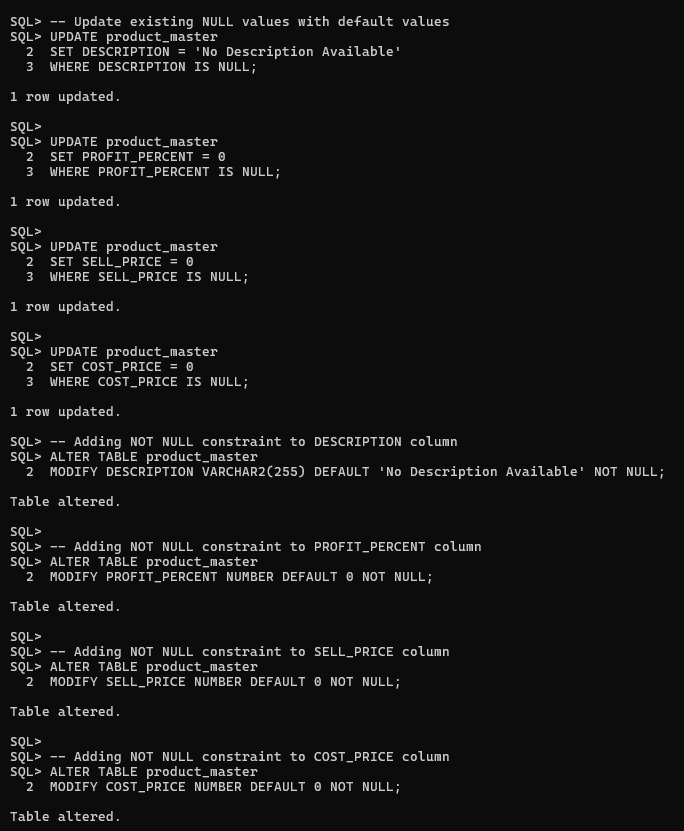


TABLE IS ALREADY HAVING IT AS P\_KEY.

Q2. Add a new column phone\_no in the client\_master table.

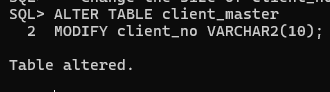


Q3. Add the not null constraint in the product\_master table with the columns description, profit percent , sell price and cost price.



Do this in case there are any values to be updated…

Q4. Change the size of client\_no field in the client\_master table.



Q5. Select product\_no, description where profit percent is between 20 and 30 both inclusive.

