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| Detailed Scheduled | |
| Topics:- | 1. Oracle Data Types: Char, Varchar, Date, Number, Long, Raw/ Long Raw 2. Data Constraints: Table Level and Row Level Constraint:    1. I/O Constraints: Unique, Primary Key, Reference Key    2. Business Rule Constraints: NOT NULL, Check, default 3. Creating Table 4. Inserting Data into Table   Viewing Data in the Table. |

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| **Exercise** | Create below given table called “**Client\_Master**” with the constrains and insert minimum 5 records in it.   |  |  |  | | --- | --- | --- | | **Column** | **Datatype and Size** | **Constraints** | | C\_No | Varchar (4) | Primary Key | | Client\_Name | Varchar (25) | Not Null | | Pincode | Number (6) | Not Null | | Birth\_Date | Date | Not Null | | Occupation | Varchar (15) | Not Null |   Add the following constraints with the table fields:   1. Client\_No must start with the capital letter ‘C’ only. 2. Pincode must be of exactly 6-digit number. 3. Sample records are as below  |  |  |  |  |  | | --- | --- | --- | --- | --- | | **C\_No** | **Client\_Name** | **Pincode** | **Birth\_Date** | **Occupation** | | C001 | Kajal Oza | 380036 | 14-july-1987 | Manager | | C002 | Vraj Shah | 380058 | 20-nov-1986 | CEO | | C003 | Dhyan Dave | 387903 | 17-June-1988 | Doctor | | C004 | Mira Vaid | 398006 | 5-jan-1976 | Professor | | C005 | Preeti Patel | 390040 | 28-feb-1971 | Clerk |   Create following tables with constraints and records as shown in the example below.  Table: **Product\_Master**   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **P\_No** | **Desc** | **Profit\_Per** | **Unit** | **Qty\_Hand** | **ReOrder** | **Sell\_P** | **Cost\_P** | | P001 | T-Shirt | 5 | Piece | 200 | 50 | 350 | 250 | | P002 | Jeans | 6 | Piece | 150 | 40 | 500 | 350 | | P003 | Skirt | 6 | Piece | 100 | 50 | 350 | 200 | | P004 | Saree | 3 | Piece | 100 | 20 | 800 | 600 | |  |  |  |  |  |  |  |  |   Create Table and Insert minimum 10 records in **Salesman\_Master** Table as shown below. (Sample data are shown for your reference):   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | S\_No | Name | Add1 | Add2 | City | Pin Code | State | Salary | Target | Sales | | S001 | Aman | 3,Dev Appt | Vaghodia | Baroda |  | Gujarat | 5000 | 100 | 50 | | S002 | Omkar |  |  | Bhopal |  | MP | 4500 | 200 | 150 | | S003 | Raj | B-104 | Verli | Mumbai | 400002 | Maharashtra | 5500 | 200 | 200 | | S004 | Ashish | 1, Smruti | Ghoddol | Surat |  | Gujarat | 4500 | 150 | 100 |   Create Sales\_Order and Sales\_Order\_Details table as shown below. Insert minimum 10 records in it.  **Sales\_Order**   |  |  | | --- | --- | | **Fields** | **Description** | | Order\_No | Primary Key, Varchar (4), Starts with ‘O’ | | Client\_No | References Client\_Master | | Order\_Date | Date | | Salesman\_No | Refers Salesman\_Master | | Delivery\_Type | Free or Paid. Use Char(1) i.e ‘F’ or ‘P’ | | Bill\_Paid | Yes (‘Y’) or No (‘N’) | | Delivery\_Date | Date | | Order\_Status | ‘In Process’, ‘Pending’, ‘Fulfilled’ |   Sales\_Order\_Details: Order\_No and Product\_No are the composite PK   |  |  | | --- | --- | | **Fields** | **Description** | | Order\_No | Refers Sales\_Order Table | | Product\_No | Refers Product\_Master | | Qty\_Ordered | Positive integer | | Qty\_Dispatched | Positive integer | | Product\_Rate | Product Selling Price \* Qantity Delivered |   Create following tables with constraints given below. Also enter minimum 5 records in Entrance\_Test table and 10 records in each of other two tables:  APPLICANT (AID, A\_Name, Address, B\_Date)  ENTRANCE\_TEST (ET\_ID, ET\_Name, Max\_Score)  ETEST\_DETAILS (AID, ETID, ETest\_Date, Score)   * AID: Applicant ID must start with a letter ‘A’ and should be of length 4, It will be the foreign key for ETEST\_DETAILS Table * Max Score of any exam must not be greater than 100 * ET\_ID is the entrance test ID, starts with ‘T’ and is length of 4, referred as Foreign Key for ETEST\_DETAILS Table   Create following tables with constraints given below. Also enter minimum 5 records in Distributor table and Item table. Enter 10 records in Dist\_Item table.  Distributor (Dno, DName, City, Phone)  Item (Item\_No, Item\_Name, Price, Weight)  Dist\_Item (Dno, Item\_No, Qty, Date)   * Dno is the PK and referred as FK for 3rd table * Item\_No starts with ‘I’ and maximum length of 5   Price, weight, Qty (quantity) must be greater than 0 and not null. |