**Familiarization of DDL commands**

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1). Create a table with name customer and fields as follows:

Cust\_id number

cust\_name varchar2(20)

cust\_hname varchar2(20)

cust\_street varchar2(20)

cust\_phone integer.

**QUERY**

CREATE TABLE customer (cust\_id INT(20), cust\_name varchar(20), cust\_hname VARCHAR (20), cust\_street VARCHAR(20), cust\_phone INT(15);

**OUTPUT**

Query OK, 0 rows affected (0.05 sec)

2) Create table order with fields as follows

Orderid number

Custid    number

Itemcode   number

Orderquantity   number

Deliverydate date

Modeof payment   char(1)

**QUERY**

CREATE TABLE order\_db (order\_id INT(20), cust\_id INT(20), item\_code INT(5), order\_date DATE, expiry\_date DATE, delivery\_date DATE, payment\_mode CHAR(1) );

**OUTPUT**

Query OK, 0 rows affected (0.05 sec)

3) Create table item\_db with the following fields

Item\_code number

            Item\_name char(1)

              Current\_stock number

   Unitprice     number

**QUERY:**

CREATE TABLE item\_db (item\_code INT(5), item\_name VARCHAR(20), stock INT(5), unit\_price INT(5));

**OUTPUT:**

Query OK, 0 rows affected (0.03 sec)

4). Alter the table to add a primary key to customer\_id in customer  table.

**QUERY:**

ALTER TABLE customer ADD CONSTRAINT p1k primary key(cust\_id);

**OUTPUT:**

Query OK, 0 rows affected (0.19 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC customer;

+-------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+-------------+------+-----+---------+-------+

| cust\_id | int(20) | NO | PRI | 0 | |

| cust\_name | varchar(20) | YES | | NULL | |

| cust\_hname | varchar(20) | YES | | NULL | |

| cust\_street | varchar(20) | YES | | NULL | |

| cust\_phone | int(15) | YES | | NULL | |

+-------------+-------------+------+-----+---------+-------+

5). Alter the table to add a primary key to itemcode in item\_details.

**QUERY:**

ALTER TABLE item\_db ADD CONSTRAINT p2k primary key(item\_code);

**OUTPUT:**

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC item\_DB;

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| item\_code | int(5) | NO | PRI | 0 | |

| item\_name | varchar(20) | YES | | NULL | |

| stock | int(5) | YES | | NULL | |

| unit\_price | int(5) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

4 rows in set (0.02 sec)

6). Alter the table to set foreign key constraint in order\_db to link with  customer\_db using customer\_id field.

**QUERY:**

ALTER TABLE order\_db ADD CONSTRAINT FOREIGN KEY (cust\_id) REFERENCES customer(cust\_id);

**OUTPUT:**

Query OK, 0 rows affected (0.20 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc order\_db;

+---------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+---------+------+-----+---------+-------+

| order\_id | int(20) | YES | | NULL | |

| cust\_id | int(20) | YES | MUL | NULL | |

| item\_code | int(5) | YES | | NULL | |

| order\_date | date | YES | | NULL | |

| expiry\_date | date | YES | | NULL | |

| delivery\_date | date | YES | | NULL | |

| payment\_mode | char(1) | YES | | NULL | |

+---------------+---------+------+-----+---------+-------+

7). Add a not null constraint to the field date\_of\_order.

**QUERY:**

ALTER TABLE order\_db MODIFY order\_date date NOT NULL;

**OUTPUT:**

Query OK, 0 rows affected (0.20 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc order\_db;

+---------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+---------+------+-----+---------+-------+

| order\_id | int(20) | YES | | NULL | |

| cust\_id | int(20) | YES | MUL | NULL | |

| item\_code | int(5) | YES | | NULL | |

| order\_date | date | NO | | | |

| expiry\_date | date | YES | | NULL | |

| delivery\_date | date | YES | | NULL | |

| payment\_mode | char(1) | YES | | NULL | |

+---------------+---------+------+-----+---------+-------+

8). Add a unique constraint for the order\_id in order\_db.

**QUERY:**

ALTER TABLE order\_db MODIFY order\_id int(20) UNIQUE;

**OUTPUT:**

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> desc order\_db;

+---------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+---------+------+-----+---------+-------+

| order\_id | int(20) | YES | UNI | NULL | |

| cust\_id | int(20) | YES | MUL | NULL | |

| item\_code | int(5) | YES | | NULL | |

| order\_date | date | NO | | | |

| expiry\_date | date | YES | | NULL | |

| delivery\_date | date | YES | | NULL | |

| payment\_mode | char(1) | YES | | NULL | |

+---------------+---------+------+-----+---------+-------+

7 rows in set (0.01 sec)

9). Add a check constraint to the field mode\_of \_payment in order\_db such that it takes three values’D’ (for cheque), ‘R’ (for cash) and ‘C’ (for credit card).

**QUERY:**

ALTER TABLE order\_db ADD CONSTRAINT c3 check (payment\_mode in ('D', 'R', 'C'));

**OUTPUT:**

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

10). Add a new field ‘remark’ as char(10) to the order\_db and set the default value , as ‘direct’.

**QUERY:**

ALTER TABLE order\_db ADD remark char(10) DEFAULT 'direct';

**OUTPUT:**

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC order\_db;

+---------------+----------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+----------+------+-----+---------+-------+

| order\_id | int(20) | YES | UNI | NULL | |

| cust\_id | int(20) | YES | MUL | NULL | |

| item\_code | int(5) | YES | | NULL | |

| order\_date | date | NO | | | |

| expiry\_date | date | YES | | NULL | |

| delivery\_date | date | YES | | NULL | |

| payment\_mode | char(1) | YES | | NULL | |

| remark | char(10) | YES | | direct | |

+---------------+----------+------+-----+---------+-------+

8 rows in set (0.01 sec)

11). Modify the data type and size of remark as varchar (15) in order\_db.

**QUERY:**

ALTER TABLE order\_db MODIFY remark varchar(15);

**OUTPUT:**

Query OK, 0 rows affected (0.08 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC order\_db;

+---------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+-------------+------+-----+---------+-------+

| order\_id | int(20) | YES | UNI | NULL | |

| cust\_id | int(20) | YES | MUL | NULL | |

| item\_code | int(5) | YES | | NULL | |

| order\_date | date | NO | | | |

| expiry\_date | date | YES | | NULL | |

| delivery\_date | date | YES | | NULL | |

| payment\_mode | char(1) | YES | | NULL | |

| remark | varchar(15) | YES | | NULL | |

+---------------+-------------+------+-----+---------+-------+

8 rows in set (0.00 sec)

12). Delete the column ‘remark’ from order\_db.

**QUERY:**

ALTER TABLE order\_db DROP COLUMN remark;

**OUTPUT:**

Query OK, 0 rows affected (0.11 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC order\_db;

+---------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+---------+------+-----+---------+-------+

| order\_id | int(20) | YES | UNI | NULL | |

| cust\_id | int(20) | YES | MUL | NULL | |

| item\_code | int(5) | YES | | NULL | |

| order\_date | date | NO | | | |

| expiry\_date | date | YES | | NULL | |

| delivery\_date | date | YES | | NULL | |

| payment\_mode | char(1) | YES | | NULL | |

+---------------+---------+------+-----+---------+-------+

7 rows in set (0.02 sec)

13). Describe all tables and delete the table ‘test\_db’

**QUERY:**

DESC customer;DESC item\_db;DESC order\_db;

DROP TABLE test\_db;

**OUTPUT:**

mysql> DESC customer;DESC item\_db;DESC order\_db;

+-------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------------+-------------+------+-----+---------+-------+

| cust\_id | int(20) | NO | PRI | 0 | |

| cust\_name | varchar(20) | YES | | NULL | |

| cust\_hname | varchar(20) | YES | | NULL | |

| cust\_street | varchar(20) | YES | | NULL | |

| cust\_phone | int(15) | YES | | NULL | |

+-------------+-------------+------+-----+---------+-------+

5 rows in set (0.01 sec)

+------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+------------+-------------+------+-----+---------+-------+

| item\_code | int(5) | NO | PRI | 0 | |

| item\_name | varchar(20) | YES | | NULL | |

| stock | int(5) | YES | | NULL | |

| unit\_price | int(5) | YES | | NULL | |

+------------+-------------+------+-----+---------+-------+

4 rows in set (0.00 sec)

+---------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+---------+------+-----+---------+-------+

| order\_id | int(20) | YES | UNI | NULL | |

| cust\_id | int(20) | YES | MUL | NULL | |

| item\_code | int(5) | YES | | NULL | |

| order\_date | date | NO | | | |

| expiry\_date | date | YES | | NULL | |

| delivery\_date | date | YES | | NULL | |

| payment\_mode | char(1) | YES | | NULL | |

+---------------+---------+------+-----+---------+-------+

7 rows in set (0.00 sec)

mysql> DROP TABLE test\_db;

Query OK, 0 rows affected (0.03 sec)