

ASSESSMENT -1

NAME: ALOK SINHA

REG. NO.: 17BCE2380

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 16

Server version: 8.0.11 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> USE ALOK_17BCE2380;

Database changed

mysql> CREATE TABLE CUSTOMER (CNO INT (2), CNAME VARCHAR(10), con_address varchar(10), city varchar(10), state varchar(10), zip int(5) , phone int(10));

Query OK, 0 rows affected (0.28 sec)

mysql> DESC CUSTOMER;

Field	Type	Null	Key	Default	Extra
cno	int(2)	NO	PRI	NULL	
cname	varchar(10)	YES		NULL	
con_address	varchar(10)	YES		NULL	
city	varchar(10)	YES		NULL	
state	varchar(10)	YES		NULL	
zip	int(5)	YES		NULL	
phone	int(10)	YES		NULL	

7 rows in set (0.00 sec)

```
mysql> ALTER TABLE customer ADD CONSTRAINT CON_PK3 PRIMARY KEY(cno);
```

Query OK, 0 rows affected (0.43 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO CUSTOMER VALUES(1,'ALOK','VELLORE','KATPADI','TN',12345,7092440638);
```

Query OK, 1 row affected (0.03 sec)

```
mysql> INSERT INTO CUSTOMER VALUES(2,'BIBEK','CHENNAI','CHENNAI','TN',12346,7528392898);
```

Query OK, 1 row affected (0.03 sec)

```
mysql> INSERT INTO CUSTOMER VALUES(3,'RABI','CHENNAI','CHENNAI','TN',12346,8765468976);
```

Query OK, 1 row affected (0.04 sec)

```
mysql> INSERT INTO CUSTOMER VALUES(4,'ARYAN','ROHINI','DELHI','DL',12347,6789675430);
```

Query OK, 1 row affected (0.03 sec)

```
mysql> INSERT INTO CUSTOMER
VALUES(5,'AMIT','BANGLORE','BANGLORE','KARNATAKA',12349,9865798637);
```

Query OK, 1 row affected (0.11 sec)

```
mysql> SELECT * FROM CUSTOMER;
```

cno	cname	con_address	city	state	zip	phone
1	ALOK	VELLORE	KATPADI	TN	12345	7092440638
2	BIBEK	CHENNAI	CHENNAI	TN	12346	7528392898
3	RABI	CHENNAI	CHENNAI	TN	12346	8765468976
4	ARYAN	ROHINI	DELHI	DL	12347	6789675430
5	AMIT	BANGLORE	BANGLORE	KARNATAKA	12349	9865798637

5 rows in set (0.00 sec)

```
mysql> ALTER TABLE PARTS ADD CONSTRAINT CON_PK2 PRIMARY KEY(PNO);
```

Query OK, 0 rows affected (1.34 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> INSERT INTO PARTS VALUES (11,20,15,1000);
```

Query OK, 1 row affected (0.12 sec)

```
mysql> INSERT INTO PARTS VALUES(12,23,20,2000);
```

Query OK, 1 row affected (0.17 sec)

```
mysql> INSERT INTO PARTS VALUES(13,10,8,1500);
```

Query OK, 1 row affected (0.10 sec)

```
mysql> INSERT INTO PARTS VALUES(14,5,3,7000);
```

Query OK, 1 row affected (0.03 sec)

```
mysql> INSERT INTO PARTS VALUES(15,4,2,10000);
```

Query OK, 1 row affected (0.06 sec)

```
mysql> SELECT * FROM PARTS;
```

```
+----+-----+-----+-----+
| PNO | ONHAND | ONORDER | COST |
+----+-----+-----+-----+
| 11 | 20 | 15 | 1000 |
| 12 | 23 | 20 | 2000 |
| 13 | 10 | 8 | 1500 |
| 14 | 5 | 3 | 7000 |
| 15 | 4 | 2 | 10000 |
+----+-----+-----+-----+
```

5 rows in set (0.00 sec)

```
mysql> ALTER TABLE PURCHASE_DETAILS ADD CONSTRAINT CON_PK3 PRIMARY KEY(INO);
```

Query OK, 0 rows affected (0.43 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> ALTER TABLE PURCHASE_DETAILS ADD CONSTRAINT CON_FK3 FOREIGN KEY(PNO)
REFERENCES PARTS(PNO);
```

Query OK, 0 rows affected (0.75 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> DESC PURCHASE_DETAILS;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| PNO   | int(3) | YES  | MUL | NULL    |      |
| QTY   | int(5) | YES  |     | NULL    |      |
| INO   | int(5) | NO   | PRI | NULL    |      |
| PRICE | int(8) | YES  |     | NULL    |      |
+-----+-----+-----+-----+-----+-----+
```

```
4 rows in set (0.12 sec)
```

```
mysql> INSERT INTO PURCHASE_DETAILS VALUES (11,20,123,1000);
```

```
Query OK, 1 row affected (0.13 sec)
```

```
mysql> INSERT INTO PURCHASE_DETAILS VALUES (12,23,124,2000);
```

```
Query OK, 1 row affected (0.04 sec)
```

```
mysql> INSERT INTO PURCHASE_DETAILS VALUES (13,23,125,1500);
```

```
Query OK, 1 row affected (0.18 sec)
```

```
mysql> INSERT INTO PURCHASE_DETAILS VALUES (14,5,126,7000);
```

```
Query OK, 1 row affected (0.13 sec)
```

```
mysql> INSERT INTO PURCHASE_DETAILS VALUES (15,4,127,10000);
```

```
Query OK, 1 row affected (0.13 sec)
```

```
mysql> SELECT * FROM PURCHASE_DETAILS;
```

```
+-----+-----+-----+-----+  
| PNO | QTY | INO | PRICE |  
+-----+-----+-----+-----+  
| 11 | 20 | 123 | 1000 |  
| 12 | 23 | 124 | 2000 |  
| 13 | 23 | 125 | 1500 |  
| 14 | 5 | 126 | 7000 |  
| 15 | 4 | 127 | 10000 |  
+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

```
mysql> CREATE TABLE INVOICES (INO INT (5), CNO INT (2), IDATE INT (4), ITOTAL INT (8));
```

Query OK, 0 rows affected (0.28 sec)

```
mysql> ALTER TABLE INVOICES ADD CONSTRAINT CON_FK4 FOREIGN KEY(INO) REFERENCES  
PURCHASE_DETAILS(INO);
```

Query OK, 0 rows affected (0.80 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> ALTER TABLE INVOICES ADD CONSTRAINT CON_FK5 FOREIGN KEY(CNO) REFERENCES  
CUSTOMER(CNO);
```

Query OK, 0 rows affected (0.74 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
MySQL> DESC INVOICES;
```

```
+-----+-----+-----+-----+-----+-----+
| Field | Type  | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| INO   | int(5) | YES  | MUL | NULL    |       |
| CNO   | int(2) | YES  | MUL | NULL    |       |
| IDATE | int(4) | YES  |     | NULL    |       |
| ITOTAL | int(8) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> INSERT INTO INVOICES VALUES(123,1,2016,1000);
```

```
Query OK, 1 row affected (1.01 sec)
```

```
mysql> INSERT INTO INVOICES VALUES (124,2,2017,10000);
```

```
Query OK, 1 row affected (0.04 sec)
```

```
mysql> INSERT INTO INVOICES VALUES(125,3,2017,15000);
```

```
Query OK, 1 row affected (0.05 sec)
```

```
mysql> INSERT INTO INVOICES VALUES (126,4,2018,1500);
```

```
Query OK, 1 row affected (0.08 sec)
```

```
mysql> INSERT INTO INVOICES VALUES (127,5,2018,15000);
```

```
Query OK, 1 row affected (0.09 sec)
```

```
mysql> SELECT * FROM INVOICES;
```

```
+-----+-----+-----+-----+
| INO | CNO | IDATE | ITOTAL |
+-----+-----+-----+-----+
| 123 | 1 | 2016 | 1000 |
| 124 | 2 | 2017 | 10000 |
| 125 | 3 | 2017 | 15000 |
| 126 | 4 | 2018 | 1500 |
| 127 | 5 | 2018 | 15000 |
```

```
+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM CUSTOMER;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| cno | cname | con_address | city | state | zip | phone |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | ALOK | VELLORE | KATPADI | TN | 12345 | 7092440638 |
| 2 | BIBEK | CHENNAI | CHENNAI | TN | 12346 | 7528392898 |
| 3 | RABI | CHENNAI | CHENNAI | TN | 12346 | 8765468976 |
| 4 | ARYAN | ROHINI | DELHI | DL | 12347 | 6789675430 |
| 5 | AMIT | BANGLORE | BANGLORE | KARNATAKA | 12349 | 9865798637 |
```

```
+-----+-----+-----+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)


```
mysql> SELECT * FROM PARTS;
```

```
+-----+-----+-----+-----+  
| PNO | ONHAND | ONORDER | COST |  
+-----+-----+-----+-----+  
| 11 | 20 | 15 | 1000 |  
| 12 | 23 | 20 | 2000 |  
| 13 | 10 | 8 | 1500 |  
| 14 | 5 | 3 | 7000 |  
| 15 | 4 | 2 | 10000 |
```

```
+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM PURCHASE_DETAILS;
```

```
+-----+-----+-----+-----+  
| PNO | QTY | INO | PRICE |  
+-----+-----+-----+-----+  
| 11 | 20 | 123 | 1000 |  
| 12 | 23 | 124 | 2000 |  
| 13 | 23 | 125 | 1500 |  
| 14 | 5 | 126 | 7000 |  
| 15 | 4 | 127 | 10000 |
```

```
+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM INVOICES;
```

```
+-----+-----+-----+-----+
| INO | CNO | IDATE | ITOTAL |
+-----+-----+-----+-----+
| 123 | 1 | 2016 | 1000 |
| 124 | 2 | 2017 | 10000 |
| 125 | 3 | 2017 | 15000 |
| 126 | 4 | 2018 | 1500 |
| 127 | 5 | 2018 | 15000 |
```

```
+-----+-----+-----+-----+
```

5 rows in set (0.00 sec)

3. Check all the customers and office phone number should be unique.

```
mysql> SELECT DISTINCT PHONE FROM CUSTOMER;
```

```
+-----+
| PHONE |
+-----+
| 6789675430 |
| 7092440638 |
| 7528392898 |
| 8765468976 |
| 9865798637 |
```

```
+-----+
```

5 rows in set (0.04 sec)

4. Display the customers based on city.

```
mysql> SELECT * FROM CUSTOMER WHERE CITY='CHENNAI';
```

```
+-----+-----+-----+-----+-----+-----+
| cno | cname | con_address | city | state | zip | phone |
+-----+-----+-----+-----+-----+-----+
| 2 | BIBEK | CHENNAI | CHENNAI | TN | 12346 | 7528392898 |
| 3 | RABI | CHENNAI | CHENNAI | TN | 12346 | 8765468976 |
+-----+-----+-----+-----+-----+-----+
```

```
2 rows in set (0.00 sec)
```

5. Display the number of customers based on state.

```
mysql> SELECT STATE,
-> COUNT(*)
-> FROM CUSTOMER
-> GROUP BY STATE;
```

```
+-----+-----+
| STATE | COUNT(*) |
+-----+-----+
| TN | 3 |
| DL | 1 |
| KARNATAKA | 1 |
+-----+-----+
```

```
3 rows in set (0.01 sec)
```

6. Display the total number of customers who purchased products between 2016 & 2017 and 2018.

```
mysql> SELECT * FROM INVOICES WHERE IDATE= 2016 OR IDATE=2017;
```

```
+-----+-----+-----+-----+
| INO | CNO | IDATE | ITOTAL |
+-----+-----+-----+-----+
| 123 | 1 | 2016 | 1000 |
| 124 | 2 | 2017 | 10000 |
| 125 | 3 | 2017 | 15000 |
+-----+-----+-----+-----+
```

```
3 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM INVOICES WHERE IDATE= 2017 OR IDATE=2018;
```

```
+-----+-----+-----+-----+
| INO | CNO | IDATE | ITOTAL |
+-----+-----+-----+-----+
| 124 | 2 | 2017 | 10000 |
| 125 | 3 | 2017 | 15000 |
| 126 | 4 | 2018 | 1500 |
| 127 | 5 | 2018 | 15000 |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM INVOICES WHERE IDATE= 2016;
```

```
+-----+-----+-----+-----+
| INO | CNO | IDATE | ITOTAL |
+-----+-----+-----+-----+
| 123 | 1 | 2016 | 1000 |
+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

```
mysql> SELECT * FROM INVOICES WHERE IDATE= 2017;
```

```
+-----+-----+-----+-----+
| INO | CNO | IDATE | ITOTAL |
+-----+-----+-----+-----+
| 124 | 2 | 2017 | 10000 |
| 125 | 3 | 2017 | 15000 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM INVOICES WHERE IDATE= 2018;
```

```
+-----+-----+-----+-----+
| INO | CNO | IDATE | ITOTAL |
+-----+-----+-----+-----+
| 126 | 4 | 2018 | 1500 |
| 127 | 5 | 2018 | 15000 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

8. Add a column COMPANY in the PARTS table and update the table.

```
mysql> ALTER TABLE PARTS ADD COMPANY VARCHAR(10);
```

Query OK, 0 rows affected (0.79 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> SELECT * FROM PARTS;
```

```
+-----+-----+-----+-----+-----+
| PNO | ONHAND | ONORDER | COST | COMPANY |
+-----+-----+-----+-----+-----+
| 11 | 20 | 15 | 1000 | NULL |
```

12	23	20	2000	NULL
13	10	8	1500	NULL
14	5	3	7000	NULL
15	4	2	10000	NULL

5 rows in set (0.00 sec)

```
mysql> UPDATE PARTS SET COMPANY='TATA' WHERE PNO='11';
Query OK, 1 row affected (0.21 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE PARTS SET COMPANY='BIRLA' WHERE PNO='12';
Query OK, 1 row affected (0.24 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE PARTS SET COMPANY='SAMSUNG' WHERE PNO='13';
Query OK, 1 row affected (0.16 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE PARTS SET COMPANY='HP' WHERE PNO='14';
Query OK, 1 row affected (0.08 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> UPDATE PARTS SET COMPANY='HUNDAI' WHERE PNO='14';
Query OK, 1 row affected (0.08 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

```
mysql> SELECT * FROM PARTS;
```

PNO	ONHAND	ONORDER	COST	COMPANY
11	20	15	1000	TATA
12	23	20	2000	BIRLA
13	10	8	1500	SAMSUNG
14	5	3	7000	HUNDAI
15	4	2	10000	NULL

5 rows in set (0.00 sec)

9. Rename table PURCHASE DETAIL as DETAIL.

```
mysql> RENAME TABLE PURCHASE_DETAILS TO DETAIL;
Query OK, 0 rows affected (0.27 sec)
```

```
mysql> SELECT * FROM DETAIL;
```

PNO	QTY	INO	PRICE
11	20	123	1000
12	23	124	2000
13	23	125	1500

```
| 14 | 5 | 126 | 7000 |
| 15 | 4 | 127 | 10000 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

10. Delete the entries which having city as DELHI from the CUSTOMER table.

```
mysql> alter table invoices
-> drop foreign key con_fk5;
Query OK, 0 rows affected (0.27 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

```
mysql> delete from customer
-> where city='delhi';
Query OK, 1 row affected (0.07 sec)
```

```
mysql> select * from customer;
+-----+-----+-----+-----+-----+-----+
| cno | cname | con_address | city | state | zip | phone |
+-----+-----+-----+-----+-----+-----+
| 1 | ALOK | VELLORE | KATPADI | TN | 12345 | 7092440638 |
| 2 | BIBEK | CHENNAI | CHENNAI | TN | 12346 | 7528392898 |
| 3 | RABI | CHENNAI | CHENNAI | TN | 12346 | 8765468976 |
| 5 | AMIT | BANGLORE | BANGLORE | KARNATAKA | 12349 | 9865798637 |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

11. Count the number of customer location with repetition from customer table.

```
mysql> select city,
-> count(*)
-> from customer
-> group by city;
+-----+-----+
| city | count(*) |
+-----+-----+
| KATPADI | 1 |
| CHENNAI | 2 |
```

```
| BANGLORE | 1 |
+-----+-----+
3 rows in set (0.00 sec)
```

12. Display the products having price more than Rs.5000

```
mysql> SELECT * FROM DETAIL WHERE PRICE >5000;
```

```
+-----+-----+-----+-----+
| PNO | QTY | INO | PRICE |
+-----+-----+-----+-----+
| 14 | 5 | 126 | 7000 |
| 15 | 4 | 127 | 10000 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

13. Add a column DOB in the CUSTOMER table and update the table.

```
mysql> alter table customer add DOB INT(5);
```

Query OK, 0 rows affected (0.73 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> SELECT* FROM CUSTOMER;
```

```
+-----+-----+-----+-----+-----+-----+-----+
| cno | cname | con_address | city | state | zip | phone | DOB |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | ALOK | VELLORE | KATPADI | TN | 12345 | 7092440638 | NULL |
```

2	BIBEK	CHENNAI	CHENNAI	TN	12346	7528392898	NULL
3	RABI	CHENNAI	CHENNAI	TN	12346	8765468976	NULL
5	AMIT	BANGLORE	BANGLORE	KARNATAKA	12349	9865798637	NULL

```
+-----+-----+-----+-----+-----+-----+-----+
```

4 rows in set (0.00 sec)

```
mysql> UPDATE CUSTOMER SET DOB='1996' WHERE CNO='1';
```

Query OK, 1 row affected (0.06 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE CUSTOMER SET DOB='1997' WHERE CNO='2';
```

Query OK, 1 row affected (0.08 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE CUSTOMER SET DOB='1999' WHERE CNO='3';
```

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> UPDATE CUSTOMER SET DOB='1998' WHERE CNO='5';
```

Query OK, 1 row affected (0.05 sec)

Rows matched: 1 Changed: 1 Warnings: 0

```
mysql> SELECT * FROM CUSTOMER;
```

```
+-----+-----+-----+-----+-----+-----+-----+
```

cno	cname	con_address	city	state	zip	phone	DOB
-----	-------	-------------	------	-------	-----	-------	-----

```
+-----+-----+-----+-----+-----+-----+-----+
```

1	ALOK	VELLORE	KATPADI	TN	12345	7092440638	1996
2	BIBEK	CHENNAI	CHENNAI	TN	12346	7528392898	1997
3	RABI	CHENNAI	CHENNAI	TN	12346	8765468976	1999
5	AMIT	BANGLORE	BANGLORE	KARNATAKA	12349	9865798637	1998

```
+-----+-----+-----+-----+-----+-----+-----+
```


4 rows in set (0.00 sec)

14. Display the products that sold more than 10 quantity.

```
mysql> SELECT * FROM DETAIL WHERE QTY >10;
```

PNO	QTY	INO	PRICE
11	20	123	1000
12	23	124	2000
13	23	125	1500

15. Drop primary key constraint from any one table.

```
mysql> alter table detail
```

```
-> drop primary key ;
```

Query OK, 5 rows affected (0.64 sec)

Records: 5 Duplicates: 0 Warnings: 0