

```

1 CREATE TABLE `book` (
2   `id` int NOT NULL AUTO_INCREMENT,
3   `title` varchar(45) NOT NULL,
4   `edition` varchar(45) DEFAULT NULL,
5   `author_name` varchar(45) DEFAULT NULL,
6   `price` decimal(10,2) DEFAULT NULL,
7   PRIMARY KEY (`id`)
8 ) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=utf8
9
10 CREATE TABLE `customer` (
11   `id` int NOT NULL AUTO_INCREMENT,
12   `name` varchar(45) NOT NULL,
13   `mobile` bigint DEFAULT NULL,
14   PRIMARY KEY (`id`),
15   UNIQUE KEY `mobile_UNIQUE` (`mobile`)
16 ) ENGINE=InnoDB AUTO_INCREMENT=4 DEFAULT CHARSET=utf8
17
18 CREATE TABLE `order` (
19   `id` int NOT NULL AUTO_INCREMENT,
20   `customer_id` int NOT NULL,
21   `book_id` int NOT NULL,
22   `qty` int NOT NULL,
23   PRIMARY KEY (`id`),
24   KEY `order_customer_id_idx` (`customer_id`),
25   KEY `order_book_id_idx` (`book_id`),
26   CONSTRAINT `order_book_id` FOREIGN KEY (`book_id`) REFERENCES `book`
   (`id`),
27   CONSTRAINT `order_customer_id` FOREIGN KEY (`customer_id`) REFERENCES
   `customer` (`id`)
28 ) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=utf8

```

32 A: Modify Customer table to add - Location

34 B. Create Rep with below info

35 - Personal + Location

36 C. Shipment table for any order and assign rep

41 Delivery Application:

42 -----

43 Write SQL for the below:

45 1. Find out the list of service representatives and their location

46 Service Rep Location

```

48 -----
49
50
51 2. Find the delivery orders for a given customer
52
53 Customer Ord. Date Ord.Time Service Rep
54 -----
55
56 4. Find the current order assignments for all the service Reps
57
58 Service Rep Ord. Date Ord.Time Location
59 -----
60
61 5. Find out the distance covered by each service Rep for a given date
62 Service Rep Distance
63 -----
64 6. Find out customers ad the total number of orders in decending order
65 Customer # of Orders
66 -----
67
68 7 Find out the service rep who has covered maximum distance in the last week
69 Expected Output:
70 Service Rep Week Distance
71 -----
72
73 8. Find out the customer who has the maximum number of orders
74
75 Customer # of orders
76 -----
77
78
79

```