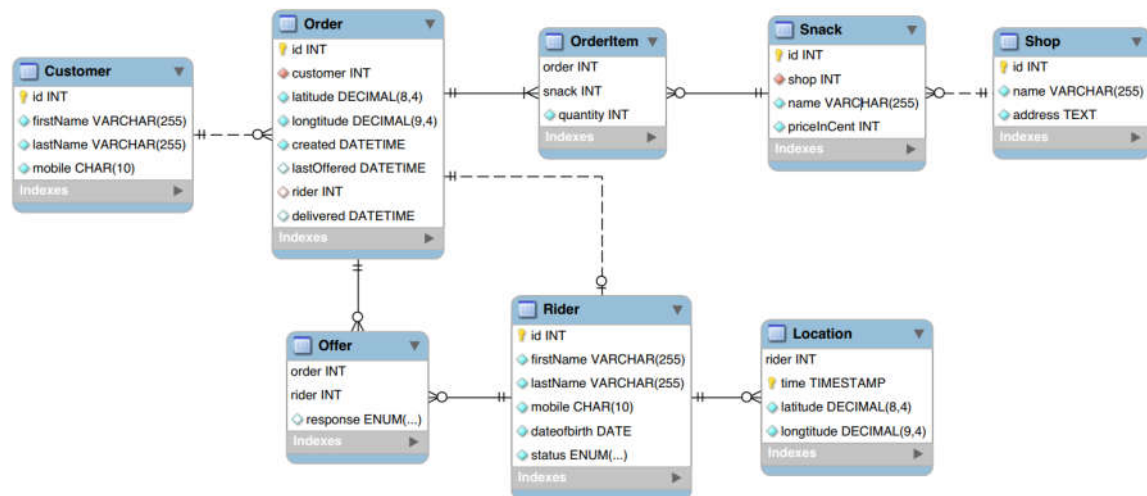


Q1



Q2 A)

```

SELECT
    postcode, COUNT(id) AS 'number of stores'
FROM
    Store
GROUP BY postcode
HAVING COUNT(id) > 1
  
```

B)

```

SELECT
    PaymentMethod.name AS method,
    SUM((price + tax) * quantity) AS amount
FROM
    PurchaseItem
    INNER JOIN
    Purchase ON PurchaseItem.purchase = Purchase.id
    INNER JOIN
    Product ON PurchaseItem.product = Product.id
    INNER JOIN
    PaymentMethod ON Purchase.paymentmethod = PaymentMethod.id
GROUP BY PaymentMethod.name
  
```

c)

```
SELECT FORMAT (  
count(*)  
/  
(SELECT count(id) FROM Purchase) *100,2)  
FROM Purchase INNER JOIN Customer  
ON Purchase.customer = Customer.id  
Where dateofbirth < '1990-01-01'
```

d)

```
SELECT  
    postcode, COUNT(id) AS 'number of stores'  
FROM  
    Store  
GROUP BY postcode  
HAVING COUNT(id) > 1
```

e)

```
SELECT  
    firstName, lastName, Customer.postcode AS postcode  
FROM  
    Customer  
        INNER JOIN  
        Purchase ON Purchase.customer = Customer.id  
        INNER JOIN  
        Store ON Purchase.store = Store.id  
WHERE  
    Customer.postcode = Store.postcode
```

Q3

Pilot (pilotId, pilotName)

takeOffDetail (takeOffID, dateTakeoff, pilotId)

Flight (flightNumber, timeTakeoff, fromAirportCode, toAirportCode, takeOffID)

Airport (ID, airportName)

Q4

i) Store.id TINYINT

ii) Customer.id INT

iii) Customer.lastname VARCHAR (255)

iv) Customer.dateofbirth DATE

v) Customer.postcode CHAR(4)

vi) Purchase.when TIMESTAMP

vii) Product.price DECIMAL (5,2)

viii) PurchaseItem.quantity SMALLINT