Section 1 – 40510222 Database Coursework

Question 6. (9points)

SELECT users.first_name, users.last_name, COUNT(orders.rider_id) AS
deliveries FROM rider JOIN users ON users.id=rider.user_id JOIN orders ON
orders.rider_id = rider.id GROUP BY users.first_name, users.last_name ORDER
BY COUNT(orders.rider id) desc LIMIT 3;

Question 7. (9points)

SELECT restaurant.name AS restaurant, x.name AS item, x.price FROM food_item
x JOIN restaurant ON x.restaurant_id=restaurant.id WHERE 10 <= ALL(SELECT
price FROM food item y WHERE x.restaurant id=y.restaurant id AND price>0);

Question 8. (9points)

SELECT first_name, last_name, SUM(CASE WHEN address.main = 1 THEN 1 ELSE 0
END) AS main, SUM(CASE WHEN address.main = 0 THEN 1 ELSE 0 END) AS other FROM
users JOIN orders ON orders.customer_id=users.id JOIN address ON
address.id=orders.delivery_address_id GROUP BY users.first_name,
users.last_name, users.id HAVING main >40 AND other>0 ORDER BY main,
users.last_name asc;

Question 11 and 15 are on the next page.

Question 11. (12points)

```
SELECT x.id AS order id,
SUM (food item.price*order item.quantity) AS 'items total',
(SELECT CASE
  WHEN SUM(food item.price*order item.quantity) >= 30 THEN 0
  WHEN SUM(food_item.price*order_item.quantity) BETWEEN 20 AND 30 THEN 1
 WHEN SUM(food_item.price*order_item.quantity) BETWEEN 10 AND 20 THEN 2
  WHEN SUM(food item.price*order item.quantity) < 10 THEN 3 ELSE 0 END AS
delivery FROM orders y JOIN order item ON y.id=order item.order id JOIN
food item ON order item.food item id=food item.id WHERE y.id=x.id GROUP BY
y.id) AS delivery,
SUM(food item.price*order item.quantity) + (SELECT CASE
  WHEN SUM(food item.price*order item.quantity) >= 30 THEN 0
  WHEN SUM(food_item.price*order_item.quantity) BETWEEN 20 AND 30 THEN 1
 WHEN SUM(food item.price*order item.quantity) BETWEEN 10 AND 20 THEN 2
  WHEN SUM (food item.price*order item.quantity) < 10 THEN 3 ELSE 0 END AS
delivery FROM orders y JOIN order item ON y.id=order item.order id JOIN
food item ON order item.food item id=food item.id WHERE y.id=x.id GROUP BY
y.id) AS total,
x.delivery charge AS 'stored delivery charge',
x.total price AS 'stored total' FROM orders x JOIN order item ON
x.id=order item.order id JOIN food item ON
order item.food item id=food item.id WHERE
(SELECT CASE
  WHEN SUM(food item.price*order item.quantity) >= 30 THEN 0
  WHEN SUM(food_item.price*order_item.quantity) BETWEEN 20 AND 30 THEN 1
  WHEN SUM(food_item.price*order_item.quantity) BETWEEN 10 AND 20 THEN 2
  WHEN SUM(food item.price*order item.quantity) < 10 THEN 3 ELSE 0 END AS
delivery FROM orders y JOIN order item ON y.id=order item.order id JOIN
food item ON order item.food item id=food item.id WHERE y.id=x.id GROUP BY
y.id) <> x.delivery charge GROUP BY x.id, order item.order id,
x.delivery charge, x.total price;
```

Question 15. (12points)

```
SELECT ROUND (SUM (CASE WHEN TIMESTAMPDIFF (MINUTE, order_date, actual_delivery_time) < 40 THEN 1 ELSE 0 END) / SUM (CASE WHEN TIMESTAMPDIFF (MINUTE, order_date, actual_delivery_time) > 0 THEN 1 ELSE 0 END), 2) AS P FROM orders WHERE DATE_FORMAT (order_date, "%H%i") BETWEEN 1830 AND 1930 AND DAYNAME (order_date) LIKE 'Friday';
```