Procedure **Part 1**

DROP PROCEDURE IF EXISTS `sp\_Drone\_Type\_Assigned\_Warehouse`;

DELIMITER $$

CREATE PROCEDURE `sp\_Drone\_Type\_Assigned\_Warehouse` ()

BEGIN

-- AC - AllCount

select dt.Drone\_Type\_ID, w.warehouse\_ID, dd.Drone\_Status

from warehouse as w, drone\_type as dt

inner join drone\_details as dd on dt.Drone\_Type\_ID = dd.Drone\_Type\_ID

where dd.Drone\_Status = "Available"

order by dt.Drone\_Type\_ID;

END $$

DELIMITER ;

**Part 2**

DROP PROCEDURE IF EXISTS `sp\_Customer\_Warehouse\_Zipcode`;

DELIMITER $$

CREATE PROCEDURE `sp\_Customer\_Warehouse\_Zipcode` ()

BEGIN

-- AC - AllCount

select oi.OrderItem\_ID, chca.ShippingAddress\_ID, ca.Zip\_Code, w.Zip\_Code

from order\_item as oi inner join customer\_has\_custshipping\_address as chca on oi.Customer\_Cust\_ID = chca.Cust\_ID

inner join custshipping\_address as ca on chca.ShippingAddress\_ID = ca.ShippingAddress\_ID

inner join warehouse as w on w.Zip\_Code = ca.Zip\_Code;

END $$

DELIMITER ;

**Part 3**

DROP PROCEDURE IF EXISTS `sp\_assign\_drone`;

DELIMITER $$

CREATE PROCEDURE `sp\_assign\_drone` ()

BEGIN

-- AC - AllCount

select oi.Package\_weight, dt.Drone\_Capacity, dd.Drone\_ID, dt.Drone\_Type\_ID

from order\_item as oi, drone\_type as dt

inner join drone\_details as dd on dt.Drone\_Type\_ID = dd.Drone\_Type\_ID

where oi.Package\_weight <= dt.Drone\_Capacity

order by dt.Drone\_Capacity;

END $$

DELIMITER ;

**Final Important Procedure**

**select oi.OrderItem\_ID, chca.ShippingAddress\_ID, ca.Zip\_Code as customer\_Zipcode, w.Zip\_Code as Warehouse\_Zipcode, w.warehouse\_ID, dd.Drone\_ID, dd.Drone\_Type\_ID, oi.Package\_weight,dt.Drone\_Capacity**

**from order\_item as oi inner join customer\_has\_custshipping\_address as chca on oi.Customer\_Cust\_ID = chca.Cust\_ID**

**inner join custshipping\_address as ca on chca.ShippingAddress\_ID = ca.ShippingAddress\_ID**

**inner join warehouse as w on w.Zip\_Code = ca.Zip\_Code**

**inner join drone\_details as dd on dd.warehouse\_ID = w.warehouse\_ID**

**inner join drone\_type as dt on dt.Drone\_Type\_ID = dd.Drone\_Type\_ID**

**where dd.Drone\_Status="Available" AND oi.Package\_weight<=dt.Drone\_Capacity group by oi.OrderItem\_ID;**