

Q07

```
SELECT productcategory.modelNum, productcategory.modelDescription,  
equipmentrepair.equipmentRepairDate, COUNT(*) AS 'TotalNumberOfRepairs'  
FROM equipmentrepair  
INNER JOIN itemsold USING(equipmentserialnum)  
INNER JOIN productcategory USING(modelnum)  
WHERE equipmentrepair.equipmentRepairDate >= '2021.01.01'  
GROUP BY productcategory.modelNum
```

Result #1 (4r × 4c)			
modelNum	modelDescription	equipmentRepairDate	TotalNumberOfRepairs
2	Hang Glider - Eagle 180	2021-08-20	1
7	Hang Glider - Stealth 151	2021-09-01	1
8	Hang Glider - Talon 140	2021-05-27	1
10	Paraglider - Tequila	2021-08-10	1

Q08

```
SELECT technician.technicianNum,  
time_format(SUM(TIMEDIFF(equipmentrepair.equipmentRepairTimeCompleted,  
equipmentrepair.equipmentRepairTimeStarted)), "%H %i %S") AS "Hours Worked",  
technician.technicianSalaryPerHour,  
(technician.technicianSalaryPerHour*time_format(SUM(TIMEDIFF(equipmentrepair.  
equipmentRepairTimeCompleted, equipmentrepair.equipmentRepairTimeStarted)),  
"%H %i %S")) AS "Total Salary"  
FROM technician  
INNER JOIN equipmentrepair USING(techniciannum)  
GROUP BY technician.technicianNum
```

technician (3r × 4c)			
technicianNum	Hours Worked	technicianSalaryPerHour	Total Salary
7	16 30 00	25.00	400.00
8	05 00 00	27.00	135.00
9	04 00 00	21.00	84.00

Q09

```
SELECT distinct(supplier.supplierNum), supplier.supplierName  
FROM productorder  
right JOIN supplier USING(suppliernum)
```

```
WHERE supplier.supplierNum != (SELECT supplier.supplierNum FROM supplier
INNER JOIN productorder USING(suppliernum) WHERE
productorder.orderDateReceived IS NULL)
ORDER BY supplier.supplierName
```

supplier (11r x 2c)	
supplierNum	supplierName
2	Aeros
10	Airush
3	Airwave
9	Cabrhina
11	Caution
5	Flightstar
7	Phantom
4	Skywalk
8	Slingshot
1	Wills Wing
12	Xnation

Q10

```
SELECT saletransaction.salesAgreementDate, customer.customerNum,
CONCAT(customer.customerFirstName, " ", customer.customerLastName) AS
customer, productcategory.modelNum, productcategory.modelDescription,
productcategory.modelManufacturer, itemsold.equipmentSalePrice
FROM saletransaction
INNER JOIN customer USING(customernum)
INNER JOIN salelineitem USING(salesagreementnum)
INNER JOIN itemsold USING(equipmentserialnum)
INNER JOIN productcategory USING(modelnum)
WHERE saletransaction.salesAgreementDate >= (CURDATE() - INTERVAL 2 YEAR)
ORDER BY saletransaction.salesAgreementDate
```

Result #1 (6r x 7c)						
salesAgreementDate	customerNum	customer	modelNum	modelDescription	modelManufacturer	equipmentSalePrice
2020-05-30	7	Caleb Haskell	7	Hang Glider - Stealth 151	Aeros	5,940.00
2020-06-01	5	Sophia James	1	Paraglider - Cayenne	Skywalk	4,070.00
2020-06-21	1	Shane Rockwell	7	Hang Glider - Stealth 151	Aeros	5,940.00
2020-06-21	8	Braden Wallace	10	Paraglider - Tequila	Skywalk	5,500.00
2020-06-22	1	Shane Rockwell	11	Kiteboard - Wasp 3	Cabrinha	2,860.00
2020-07-24	4	Jim "Great" Dane	11	Kiteboard - Wasp 3	Cabrinha	2,860.00

Q11

```
CREATE VIEW V11a AS
SELECT productcategory.modelNum, productcategory.modelDescription,
COUNT(itemsold.modelNum) AS totalsales
FROM productcategory, itemsold
WHERE productcategory.modelNum=itemsold.modelNum
GROUP BY productcategory.modelNum;
```

```
SELECT * FROM V11a;
```

V11a (11r × 3c)		
modelNum	modelDescription	totalsales
1	Paraglider - Cayenne	3
2	Hang Glider - Eagle 180	1
3	Hang Glider - Pulse	1
4	Kiteboard - Reactor 2012	1
5	Kiteboard - Spitfire 2010	1
6	Hang Glider - Stalker	1
7	Hang Glider - Stealth 151	2
8	Hang Glider - Talon 140	1
9	Hang Glider - Talon 160	1
10	Paraglider - Tequila	1
11	Kiteboard - Wasp 3	2

```

SELECT *
FROM V11a
WHERE totalsales = (SELECT Max(totalsales) FROM V11a);

```

V11a (1r × 3c)		
modelNum	modelDescription	totalsales
1	Paraglider - Cayenne	3

Q12

```

CREATE VIEW V12A AS
SELECT productcategory.modelNum, productcategory.modelDescription,
productorder.orderNum, supplier.supplierNum,
restocklineitem.lineItemEquipmentPrice
FROM productcategory, productorder, supplier, restocklineitem
WHERE productcategory.modelNum = restocklineitem.modelNum
AND productorder.orderNum = restocklineitem.orderNum
AND supplier.supplierNum = productorder.supplierNum
ORDER BY productcategory.modelNum, productorder.orderNum

SELECT *
FROM V12A

```

V12A (16r × 5c)

modelNum	modelDescription	orderNum	supplierNum	lineItemEquipmentPrice
1	Paraglider - Cayenne	6	4	3,700.00
1	Paraglider - Cayenne	7	2	3,700.00
1	Paraglider - Cayenne	14	6	3,700.00
2	Hang Glider - Eagle 180	7	2	4,800.00
3	Hang Glider - Pulse	5	4	5,200.00
4	Kiteboard - Reactor 2012	4	3	5,000.00
5	Kiteboard - Spitfire 2010	1	11	2,400.00
6	Hang Glider - Stalker	8	2	4,700.00
7	Hang Glider - Stealth 151	9	9	5,400.00
7	Hang Glider - Stealth 151	10	12	5,400.00
8	Hang Glider - Talon 140	2	1	4,300.00
8	Hang Glider - Talon 140	15	2	4,300.00
9	Hang Glider - Talon 160	3	10	4,200.00
10	Paraglider - Tequila	11	12	5,000.00
11	Kiteboard - Wasp 3	12	11	2,600.00
11	Kiteboard - Wasp 3	13	4	2,600.00

```

CREATE VIEW V12B AS
SELECT productcategory.modelNum, productcategory.modelDescription,
supplier.supplierNum
FROM productcategory, supplier, restocklineitem, productorder
WHERE productcategory.modelNum = restocklineitem.modelNum
AND productorder.orderNum = restocklineitem.orderNum
AND supplier.supplierNum = productorder.supplierNum

SELECT * FROM v12b
ORDER BY suppliernum

```

v12b (16r × 3c)		
modelNum	modelDescription	supplierNum
8	Hang Glider - Talon 140	1
1	Paraglider - Cayenne	2
2	Hang Glider - Eagle 180	2
6	Hang Glider - Stalker	2
8	Hang Glider - Talon 140	2
4	Kiteboard - Reactor 2012	3
11	Kiteboard - Wasp 3	4
1	Paraglider - Cayenne	4
3	Hang Glider - Pulse	4
1	Paraglider - Cayenne	6
7	Hang Glider - Stealth 151	9
9	Hang Glider - Talon 160	10
11	Kiteboard - Wasp 3	11
5	Kiteboard - Spitfire 2010	11
10	Paraglider - Tequila	12
7	Hang Glider - Stealth 151	12

```

SELECT modelnum, modeldescription, COUNT(DISTINCT(suppliernum)) AS
SupplierNum
FROM v12b
GROUP BY modelnum
HAVING COUNT(DISTINCT(suppliernum)) > 1

```

v12b (4r × 3c)		
modelNum	modelDescription	SupplierNum
1	Paraglider - Cayenne	3
7	Hang Glider - Stealth 151	2
8	Hang Glider - Talon 140	2
11	Kiteboard - Wasp 3	2

Q13

```

PREPARE CustomerCreditCards FROM 'SELECT customer.customerNum,
CONCAT(customer.customerFirstName, " ", customer.customerLastName) AS
"Customer", creditcard.creditCardNum, creditcard.creditCardType,
CONCAT(creditcard.creditCardExpirationMonth, "/",
creditcard.creditCardExpirationYear) AS "ExpDate" FROM customer INNER JOIN
holdsaccount USING(customernum) INNER JOIN creditcard USING(creditcardnum)
WHERE customer.customernum = ?';
SET @CN = '1';
EXECUTE CustomerCreditCards USING @CN;

```

Result #1 (2r x 5c)					
customerNum		Customer	creditCardNum	creditCardType	ExpDate
1		Shane Rockwell	4120666734254132	Visa	2/2023
1		Shane Rockwell	5268080043376894	MasterCard	1/2022

```
SET @CN = '2';
EXECUTE CustomerCreditCards USING @CN;
```

Result #1 (1r x 5c)					
customerNum		Customer	creditCardNum	creditCardType	ExpDate
2		Adam Reynolds	5140123408221452	Amex	6/2023

Q14

```
PREPARE listrepairs FROM 'SELECT customer.customerNum,
CONCAT(customer.customerFirstName, " ", customer.customerLastName) AS
"Customer", repairitem.equipmentserialnum,
equipmentrepair.equipmentrepairdate,
equipmentrepair.equipmentrepairproblemdescription
From customer
INNER JOIN serviceagreement USING(customernum)
INNER JOIN repairitem USING(serviceagreementnum)
INNER JOIN equipmentrepair USING(equipmentserialnum)
WHERE customer.customernum = ?';
SET @CN = '1';
EXECUTE listrepairs USING @CN;
```

Result #1 (1r x 5c)					
customerNum		Customer	equipmentserialnum	equipmentrepairdate	equipmentrepairproblemdescription
1		Shane Rockwell	123456	2021-05-27	Wing Replacement

```
SET @CN = '2';
EXECUTE listrepairs USING @CN;
```

Result #1 (1r x 5c)					
customerNum		Customer	equipmentserialnum	equipmentrepairdate	equipmentrepairproblemdescription
2		Adam Reynolds	563421	2020-06-25	Adjust control bar