T-SQL Queries for AdventureWorks Database

The AdventureWorks sample database supports standard online transaction processing scenarios for a fictitious product manufacturer and reseller named AdventureWorks. The company manufactures sports and leisure products for sale to both individuals and stores around the world. AdventureWorks also purchases products from different vendors for resale. The company employs 290 employees, with several regional sales teams located throughout their market base. Scenarios that are represented in the sample database include Manufacturing, Sales, Purchasing, Product Management, Contact Management, and Human Resources.

1.Displaying a list of all Level 1 employees showing the BusinessEntityID, national ID number, first name, last name, department name and job title. Ensuring that an employee is associated with only the current department with no duplicates.

```
### SELECT

e.BusinessEntityID,
e.NationalIDNumber,
p.FirstName,
p.LastName,
d.Name AS Department,
e.JobTitle

FROM
HumanResources.Employee e

INNER JOIN
Person.Person p ON e.BusinessEntityID = p.BusinessEntityID

INNER JOIN
HumanResources.EmployeeDepartmentHistory edh ON e.BusinessEntityID = edh.BusinessEntityID

INNER JOIN
HumanResources.Department d ON edh.DepartmentID = d.DepartmentID

WHERE
```

Output



2. Displaying the account number, vendor name and credit rating for those vendors sorted in alphabetical order using outer joins and subqueries.

```
--a) outter join
SELECT
     v.AccountNumber,
     v.Name AS VendorName
     v.CreditRating
 Purchasing.Vendor v
     Purchasing. Product Vendor \ pv \ ON \ v. Business Entity ID = pv. Business Entity ID
 WHERE
    pv.ProductID IS NULL
 ORDER BY
     v.Name ASC:
SELECT
     v.AccountNumber,
     v.Name AS VendorName.
≒SELECT
     v.AccountNumber.
     v. Name AS VendorName
     v.CreditRating
 FROM
     Purchasing.Vendor v
     v.BusinessEntityID NOT IN (SELECT pv.BusinessEntityID FROM Purchasing.ProductVendor pv)
     v.Name ASC;
```

Output



3. A query that displays the sum of all purchase orders and sum of all sales orders per each shipping method using the TotalDue column. All shipping methods are displayed regardless of whether they have matching sales or purchases.

Output

	Es Mess				
9		Knoptler Cycles	1		
10	LEGENDC0001	Legend Cycles	1		
11	LIGHTSP0001	Light Speed	1		
12	MAGICCY0001	Magic Cycles	1		
	ShipMethodID	SName	TotalSales	TotalP	ırchases
1 1	·	XRQ - TRUCK GROUN			320043.81
2		ZY - EXPRESS	NULL		01.77
3	3	OVERSEAS - DELUXE	NULL	80029	39.00
4		OVERNIGHT J-FAST	NULL		191.19
5		CARGO TRANSPORT			461456
_	•	OARGO TRANSFORM	1302310037	70 12233	7401450
	ProductNumber	ProductName	SubCategory	ProductClas	S
1	BB-7421	LL Bottom Bracket	Bottom Brackets	Low	
2	BB-8107	ML Bottom Bracket	Bottom Brackets	Medium	
3	BB-9108	HL Bottom Bracket	Bottom Brackets	High	
4	BK-M18B-40	Mountain-500 Bl	Mountain Bikes	Low	
5	BK-M18B-42	Mountain-500 Bl	Mountain Bikes	Low	
6	BK-M18B-44	Mountain-500 Bl	Mountain Bikes	Low	
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