

**Problems:**

1.)

```
use aw;  
select count(*) from DimCurrency;  
select count(*) from DimTime;  
-- etc
```

ANSWERS: DimCurrency: 105, DimTime: 1158, DimPromotion: 16, DimProduct: 158,  
DimProductSubcategory: 37, DimProductCategory: 4, DimEmployee: 296, DimSalesTerritory:  
11, DimCustomer: 18343, DimGeography: 655

2.)

```
use information_schema;  
select TABLE_NAME, TABLE_ROWS from TABLES;
```

ANSWER: 59808

3.)

ANSWER: They added "Dim" as a prefix to their Dimension Table names.

4.)

ANSWER: To indicate an employee's supervisor (thus the "parentEmployee" attributes).

5.)

```
use aw;  
select EnglishProductSubcategoryName from DimProductSubcategory;
```

ANSWER: Mountain Bikes, Road Bikes, Touring Bikes

6.)

```
-- ProductSubcategoryKey: 1=mtn 2=road 3=tour  
use aw;  
select Tim.CalendarYear, Pro.ProductSubcategoryKey, sum(Sal.UnitPrice) TotalSales from  
FactInternetSales Sal
```

```

join DimProduct Pro join DimTime Tim on Sal.ProductKey=Pro.ProductKey and
Sal.OrderDateKey=Tim.TimeKey
where (Tim.CalendarYear='2004' OR Tim.CalendarYear='2003' OR Tim.CalendarYear='2002'
OR Tim.CalendarYear='2001') AND
(Pro.ProductSubcategoryKey=1 OR Pro.ProductSubcategoryKey=2 OR
Pro.ProductSubcategoryKey=3)
group by Tim.CalendarYear, Pro.ProductSubcategoryKey
order by TotalSales;

```

ANSWER: 2002

7.)

```

use aw;
select Cus.Gender, Tim.CalendarYear, Tim.MonthNumberOfYear, sum(Sal.UnitPrice)
TotalSales from FactInternetSales Sal
join DimProduct Pro join DimTime Tim join DimCustomer Cus on
Sal.ProductKey=Pro.ProductKey and Sal.OrderDateKey=Tim.TimeKey and
Sal.CustomerKey=Cus.CustomerKey
where (Pro.ProductSubcategoryKey=1 OR Pro.ProductSubcategoryKey=2 OR
Pro.ProductSubcategoryKey=3)
group by Cus.Gender, Tim.CalendarYear, Tim.MonthNumberOfYear
order by TotalSales;

```

ANSWER: June 2004

8.)

```

use aw;
select Tim.CalendarYear, Pro.ProductSubcategoryKey, Pro.ModelName,
sum(Sal.UnitPrice-Sal.ProductStandardCost) Margin from FactInternetSales Sal
join DimProduct Pro join DimTime Tim on Sal.ProductKey=Pro.ProductKey and
Sal.OrderDateKey=Tim.TimeKey
where Tim.CalendarYear='2003' AND (Pro.ProductSubcategoryKey=1 OR
Pro.ProductSubcategoryKey=2 OR Pro.ProductSubcategoryKey=3)
group by Tim.CalendarYear, Pro.ProductSubcategoryKey, ModelName
order by Margin;

```

ANSWER: Mountain-200