

Data Modeling and Databases: Assignment 4

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Required SQL statements are following:

1.

```
select "MovieName"
from "Movies" as m, "MovieSupplier" as ms, "Suppliers" as s
where m."MovieID"=ms."MovieID" and
ms."SupplierID"=s."SupplierID" and s."SupplierName"<>'Lionsgate' and
s."SupplierName"<>'Pixar';
```
2. (a)

```
select "MovieName"
from "Movies" m
where m."MovieID"=(select "MovieID"
                    from "Inventory" i
                    where i."TapeID"=( select "TapeID"
                                         from "Rentals" r
                                         where r."Duration"=
                                         (select max("Duration") from "Rentals"
                                         )))
```

(b)

```
select "MovieName"
from "Movies" m, "Inventory" i, "Rentals" r
where m."MovieID"=i."MovieID" and i."TapeID"=r."TapeID"
and r."Duration"=(select max("Duration") from "Rentals");
```
3.

```
select "SupplierName"
from "Suppliers"
where
(select count("MovieID")
from "Inventory" natural join "Suppliers" natural join "MovieSupplier" )
in
(select count("MovieID") from "Inventory")
```

4. **select** "SupplierName",**count**("MovieID")
from "Inventory" **natural join** "Suppliers" **natural join** "MovieSupplier"
group by "SupplierName" a;
5. **select distinct** "MovieName"
from "Movies" **natural join** "Orders"
where "Copies">4
6. **select distinct** "FirstName","LastName"
from "Inventory" **natural join** "Movies"**natural join**
("Rentals" **inner join** "Customers" **on** ("CustID"="CustomerID"))
natural join "MovieSupplier" **natural join** "Suppliers"
where "MovieName"='Fatal_Attraction_1987' **or** "SupplierName"='VWS_VIDEO'
7. **select distinct** "MovieName"
from "Inventory" **natural join** "Movies" **natural join** "Orders"
where "Copies">1
8. **select distinct** "FirstName","LastName"
from "Customers" **inner join** "Rentals" **on** ("CustID"="CustomerID")
where "Duration">5
9. **select distinct** "SupplierName"
from "MovieSupplier" **natural join** "Suppliers"
where "Price" **in**
(select **min**("Price")
from "MovieSupplier"
where "MovieID" **in**
(select "MovieID" **from** "Movies"
where "MovieName"='Almost_Angels_1962')
)
10. (**select distinct** "MovieName" **from** "Movies")
except
(**select distinct** "MovieName" **from** "Movies" **natural join** "Inventory")