

--12: classic queries

-- 1: list tables

```
SELECT table_name
FROM user_tables;

SELECT table_name
FROM all_tables
WHERE OWNER='M1IIS_TANG';
```

--2: list the columns of company or any table

```
DESC company;
```

--3: count number of lines in company or any other tables

```
SELECT COUNT(IDCOMPANY) AS CompanyCount
FROM company;
```

--4: list the companies in the table

```
SELECT c.IDCOMPANY, c.COMPANYNAME
FROM company c;
```

--5: companies that are registered in Boston and their primary instrument

```
SELECT c.companyname, c.PRIMARYINSTRUMENT
FROM COMPANY c, GEOGRAPHY g
WHERE c.registrationcitycode=g.citycode
AND g.city='BOSTON';
```

--6: countries of company headquarters in the database

```
SELECT DISTINCT g.country
FROM COMPANY c, GEOGRAPHY g
WHERE c.hqaddresscitycode=g.citycode;
```

--7: the markets founded before 2000

```
SELECT m.fullname
FROM market m
WHERE TO_NUMBER (TO_CHAR ( TO_DATE(m.foundeddate), 'YYYY'))<2000;
```

--8: numbers of companies depends on TRBC classification

```
SELECT COUNT (IdCompany) AS CompanyCount
FROM company c, trbcclassification tc
WHERE c.TRBCActivityCode=tc.TRBCActivityCode;
```

--9: the companies depends on GICS classification in US that provide IT Services

```

SELECT c.CompanyName, c.idcompany,gc.gicssector
FROM company c, gicsclassification gc, geography g
WHERE c.legaladdresscitycode=g.citycode
AND c.gicssubindustrycode=gc.gicssubindustrycode
AND g.country = 'United States of America'
AND gc.gicsindustry='IT Services';

```

--10: all possible business sectors of companies in each classification

```

SELECT gc.gicssector, nc.naicssector,tc.trbcbusinessSector,
tc.trbceconomicSector
FROM company c, gicsclassification gc, trbcclassification tc,
naicsclassification nc
WHERE c.gicssubindustrycode = gc.gicssubindustrycode
AND c.trbcactivitycode = tc.trbcactivitycode
AND c.naicsnationalindustrycode = nc.naicsnationalindustrycode ;

```

--11: the dates having the highest financial instrument volume exchanged during the day

```

SELECT cs.PriceCloseDate
FROM CompanyStock cs
WHERE cs.Volume in ( SELECT MAX(cs2.Volume)
                     FROM CompanyStock cs2);

```

--12: Markets (which are in both companystock and marketstock) with highest priceclose

```

Select m.idMarket, Max (cs.priceclose) as MaxPriceCloseCompany, Max
(fs.priceclose)as MaxPriceCloseIndex
FROM CompanyStock cs, Market m,MarketIndex mi, IndexStock fs
WHERE cs.idMarket = m.idMarket AND m.idMarket = mi.idmarket AND
mi.idindex = fs.idindex
GROUP BY m.idMarket;

```

--6 analytical queries

--1:Date of max priceclose of companies

```

SELECT DISTINCT c.idcompany, cs.priceclosedate,cs.priceclose
FROM company c, companystock cs
WHERE c.idcompany = cs.idcompany
AND (c.idcompany, cs.priceclose) IN
      (SELECT DISTINCT cs2.idcompany, MAX(cs2.priceclose)
      FROM companystock cs2
      GROUP BY cs2.idcompany);

```

--2:the currency and location of the biggest market(having biggest number of company)

```

SELECT m.Fullname,m.Currency,g.City,
g.Country,g.MinorRegion,g.Region,COUNT (cs.IdCompany) as
BiggestMarketCount
FROM market m, CompanyStock cs, geography g
WHERE m.IdMarket=cs.IdMarket

```

```

AND g.citycode = m.citycode
GROUP BY
g.Country,g.MinorRegion,g.Region,g.City,m.Fullname,m.Currency
Having COUNT (cs.IdCompany) in ( SELECT
max(allCompanyCount.companycount) as MaxMarketCompany
FROM ( SELECT m2.IdMarket, COUNT
(cs2.IdCompany) as companycount
FROM market m2,
CompanyStock cs2
WHERE
m2.IdMarket=cs2.IdMarket
GROUP BY m2.IdMarket)
allCompanyCount);

```

--3:the company having highest number of company stock

```

SELECT cs.idcompany, c.companyname,Max(cs.PriceClose) AS
HighestAmount
FROM CompanyStock cs, company c
WHERE cs.idcompany=c.idcompany
GROUP BY cs.idcompany,c.companyname
HAVING Max(cs.PriceClose)in (SELECT MAX(listmax.amount) AS MaxAmount
FROM (SELECT
cs2.idcompany,MAX(cs2.priceclose) AS amount
FROM companystock cs2
GROUP BY cs2.idcompany) ListMax);

```

--4:daily stock amount per country

```

SELECT g.Country, sum (cs.volume) as companysum, sum(i.volume) as
indexsum
FROM market m, CompanyStock cs, geography g, indexstock i
WHERE g.citycode = m.citycode AND m.idMarket = cs.idmarket
AND cs.priceclosedate = i.priceclosedate
AND i.priceclosedate >= TO_DATE('&startdate', 'YYYY/MM/DD') AND
i.priceclosedate<= TO_DATE('&enddate', 'YYYY/MM/DD')
GROUP BY g.Country;

```

---5:give out the year having most volume exchanged by GICS sector (to know for each sector, which year had the best performance)

```

SELECT extract(year from cs.PriceCloseDate) , gc.GICSSector
FROM CompanyStock cs, GICSClassification gc, Company c
WHERE c.GICSSubIndustryCode=gc.GICSSubIndustryCode
AND cs.IdCompany=c.IdCompany

AND (cs.Volume,gc.GICSSector) in (SELECT
MAX(cs2.Volume),gc2.GICSSector
FROM CompanyStock cs2,
GICSClassification gc2, Company c2
WHERE
c2.GICSSubIndustryCode=gc2.GICSSubIndustryCode
AND cs2.IdCompany=c2.IdCompany
GROUP BY gc2.GICSSector );

```

--6:Date of max priceclose of market

```
SELECT DISTINCT m.fullname,cs.priceclose
FROM market m, companystock cs
WHERE m.idmarket = cs.idmarket
AND (cs.idmarket , cs.priceclose) IN (SELECT cs2.idmarket,
MAX(cs2.priceclose)
FROM companystock cs2
GROUP BY cs2.idmarket);
```

--7:select how many times did the volume above average volume

```
SELECT cs.IdCompany,c.CompanyName,count(cs.PriceCloseDate ) AS
NoOfTimesVolumeAboveAverage ,AVG(cs.volume) AS avgVolume
FROM CompanyStock cs,Company c
WHERE cs.IdCompany=c.IdCompany

AND cs.volume >( SELECT AVG(volume) FROM CompanyStock cs1 WHERE

cs1.idcompany=cs.IdCompany)

GROUP BY cs.IdCompany,c.CompanyName
ORDER BY NoOfTimesVolumeAboveAverage;
```