

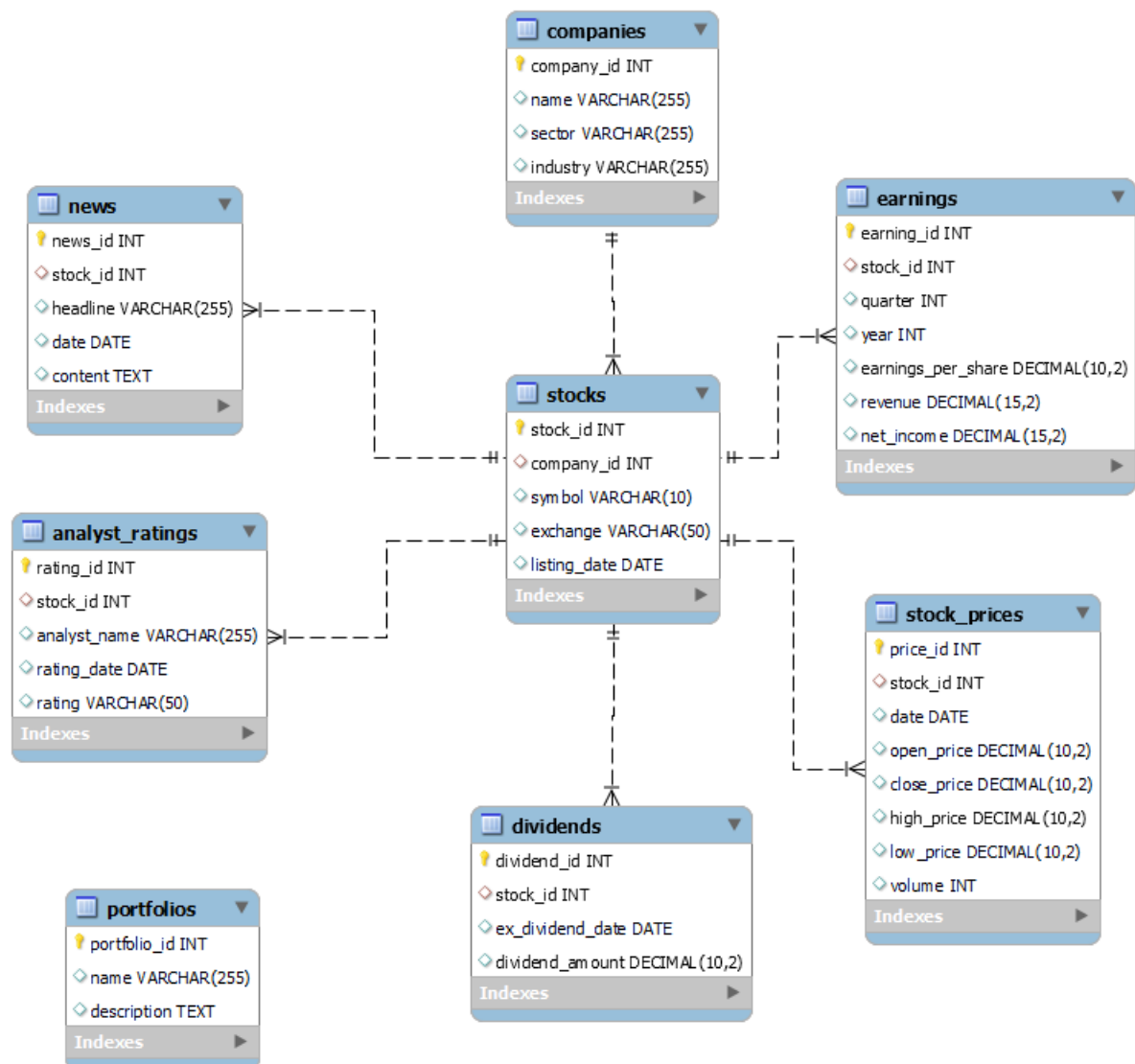


STOCKMARKETANALYZER

INTRODUCTION:-

StockMarketAnalyzer: Empowering investors with comprehensive data and insights for informed decision-making in the dynamic world of stock market investments.

ER DIAGRAM



STRUCTURE OF TABLES: -

Companies: -

```
mysql> desc companies;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| company_id | int           | NO   | PRI | NULL    |       |
| name       | varchar(255)  | YES  |     | NULL    |       |
| sector     | varchar(255)  | YES  |     | NULL    |       |
| industry   | varchar(255)  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

STOCKS: -

```
mysql> desc stocks;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| stock_id   | int           | NO   | PRI | NULL    |       |
| company_id | int           | YES  | MUL | NULL    |       |
| symbol     | varchar(10)   | YES  |     | NULL    |       |
| exchange   | varchar(50)   | YES  |     | NULL    |       |
| listing_date | date          | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

STOCK_PRICES: -

```
mysql> desc stock_prices;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| price_id   | int           | NO   | PRI | NULL    |       |
| stock_id   | int           | YES  | MUL | NULL    |       |
| date       | date          | YES  |     | NULL    |       |
| open_price | decimal(10,2) | YES  |     | NULL    |       |
| close_price | decimal(10,2) | YES  |     | NULL    |       |
| high_price | decimal(10,2) | YES  |     | NULL    |       |
| low_price  | decimal(10,2) | YES  |     | NULL    |       |
| volume     | int           | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

DIVIDENDS:-

```
mysql> desc dividends;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| dividend_id    | int           | NO   | PRI | NULL    |       |
| stock_id       | int           | YES  | MUL | NULL    |       |
| ex_dividend_date | date          | YES  |     | NULL    |       |
| dividend_amount | decimal(10,2) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

NEWS:-

```
mysql> desc news;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| news_id    | int           | NO   | PRI | NULL    |       |
| stock_id   | int           | YES  | MUL | NULL    |       |
| headline   | varchar(255)  | YES  |     | NULL    |       |
| date       | date          | YES  |     | NULL    |       |
| content    | text          | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

ANALYST_RATINGS:-

```
mysql> desc analyst_ratings;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| rating_id      | int           | NO   | PRI | NULL    |       |
| stock_id       | int           | YES  | MUL | NULL    |       |
| analyst_name   | varchar(255)  | YES  |     | NULL    |       |
| rating_date    | date          | YES  |     | NULL    |       |
| rating         | varchar(50)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```

EARNINGS:-

```
mysql> desc earnings;
```

Field	Type	Null	Key	Default	Extra
earning_id	int	NO	PRI	NULL	
stock_id	int	YES	MUL	NULL	
quarter	int	YES		NULL	
year	int	YES		NULL	
earnings_per_share	decimal(10,2)	YES		NULL	
revenue	decimal(15,2)	YES		NULL	
net_income	decimal(15,2)	YES		NULL	

```
7 rows in set (0.00 sec)
```

PORTFOLIOS:-

```
mysql> desc portfolios;
```

Field	Type	Null	Key	Default	Extra
portfolio_id	int	NO	PRI	NULL	
name	varchar(255)	YES		NULL	
description	text	YES		NULL	

```
3 rows in set (0.00 sec)
```

CONTENTS OF TABLES:-

Companies: -

```
mysql> select * from companies;
```

company_id	name	sector	industry
1	Tata Motors	Automotive	Manufacturing
2	Reliance Industries	Conglomerate	Energy
3	Infosys	Technology	IT Services
4	HDFC Bank	Financials	Banking
5	ITC Limited	Consumer Goods	FMCG
6	Maruti Suzuki India	Automotive	Manufacturing
7	State Bank of India	Financials	Banking
8	Hindustan Unilever	Consumer Goods	FMCG
9	Axis Bank	Financials	Banking
10	Wipro	Technology	IT Services
11	Bharti Airtel	Telecommunications	Telecom
12	Mahindra & Mahindra	Automotive	Manufacturing
13	TCS (Tata Consultancy Services)	Technology	IT Services
14	HCL Technologies	Technology	IT Services
15	ICICI Bank	Financials	Banking
16	Asian Paints	Materials	Paints
17	Larsen & Toubro	Industrials	Construction
18	Sun Pharmaceutical Industries	Healthcare	Pharmaceuticals
19	Adani Ports and Special Economic Zone	Industrials	Ports
20	Dr. Reddy	s Laboratories	Healthcare

20 rows in set (0.02 sec)

STOCKS: -

```
mysql> select * from stocks;
```

stock_id	company_id	symbol	exchange	listing_date
1	1	TATAMOTORS	NSE	2004-07-01
2	1	TATAMOTORS	BSE	2004-07-01
3	2	RELIANCE	NSE	1977-03-01
4	2	RELIANCE	BSE	1977-03-01
5	3	INFY	NSE	1993-06-14
6	3	INFY	BSE	1993-06-14
7	4	HDFCBANK	NSE	1995-11-17
8	4	HDFCBANK	BSE	1995-11-17
9	5	ITC	NSE	1991-08-27
10	5	ITC	BSE	1991-08-27
11	6	MARUTI	NSE	2003-07-09
12	6	MARUTI	BSE	2003-07-09
13	7	SBIN	NSE	1995-09-20
14	7	SBIN	BSE	1995-09-20
15	8	HINDUNILVR	NSE	1991-07-25
16	8	HINDUNILVR	BSE	1991-07-25
17	9	AXISBANK	NSE	1998-11-16
18	9	AXISBANK	BSE	1998-11-16
19	10	WIPRO	NSE	1995-11-11
20	10	WIPRO	BSE	1995-11-11

```
20 rows in set (0.00 sec)
```

STOCK_PRICES: -

```
mysql> select * from stock_prices;
```

price_id	stock_id	date	open_price	close_price	high_price	low_price	volume
1	1	2023-07-01	400.50	410.75	415.20	399.25	50000
2	1	2023-07-02	410.00	415.50	420.00	405.75	60000
3	2	2023-07-01	1100.00	1125.50	1130.25	1095.75	75000
4	2	2023-07-02	1125.75	1132.00	1140.50	1120.25	80000
5	3	2023-07-01	3000.00	3020.25	3035.50	2995.75	40000
6	3	2023-07-02	3010.00	3025.50	3037.75	2998.25	45000
7	4	2023-07-01	2400.50	2415.25	2422.75	2395.50	30000
8	4	2023-07-02	2420.00	2430.75	2440.00	2405.25	35000
9	5	2023-07-01	220.50	225.25	227.00	218.75	600000
10	5	2023-07-02	225.00	230.50	232.75	222.25	700000
11	6	2023-07-01	8000.00	8055.75	8090.50	7985.25	10000
12	6	2023-07-02	8055.00	8075.50	8105.25	8020.75	12000
13	7	2023-07-01	500.50	505.25	510.00	495.75	200000
14	7	2023-07-02	505.00	510.50	515.75	500.25	220000
15	8	2023-07-01	2500.00	2515.25	2522.50	2495.75	15000
16	8	2023-07-02	2510.00	2520.75	2525.50	2505.25	18000
17	9	2023-07-01	1500.50	1515.25	1522.00	1495.75	80000
18	9	2023-07-02	1515.00	1520.50	1525.75	1505.25	90000
19	10	2023-07-01	600.50	605.25	610.00	595.75	300000
20	10	2023-07-02	605.00	610.50	615.75	600.25	320000

```
20 rows in set (0.00 sec)
```

DIVIDENDS:-

```
mysql> select * from dividends;
```

dividend_id	stock_id	ex_dividend_date	dividend_amount
1	1	2023-06-30	5.00
2	1	2022-12-31	4.50
3	2	2023-06-30	12.50
4	2	2022-12-31	11.75
5	3	2023-06-30	2.50
6	3	2022-12-31	2.25
7	4	2023-06-30	6.00
8	4	2022-12-31	5.50
9	5	2023-06-30	3.50
10	5	2022-12-31	3.25
11	6	2023-06-30	8.00
12	6	2022-12-31	7.50
13	7	2023-06-30	4.50
14	7	2022-12-31	4.25
15	8	2023-06-30	3.00
16	8	2022-12-31	2.75
17	9	2023-06-30	5.50
18	9	2022-12-31	5.25
19	10	2023-06-30	2.00
20	10	2022-12-31	1.75

```
20 rows in set (0.00 sec)
```


ANALYST_RATINGS:-

```
mysql> select * from analyst_ratings;
```

rating_id	stock_id	analyst_name	rating_date	rating
1	1	John Smith	2023-07-01	Buy
2	1	Emily Johnson	2023-07-02	Hold
3	2	David Thompson	2023-07-01	Buy
4	2	Sarah Davis	2023-07-02	Hold
5	3	Michael Wilson	2023-07-01	Sell
6	3	Jennifer Brown	2023-07-02	Hold
7	4	Robert Johnson	2023-07-01	Buy
8	4	Lisa Smith	2023-07-02	Hold
9	5	Daniel Anderson	2023-07-01	Buy
10	5	Amy Thompson	2023-07-02	Hold
11	6	Michelle Davis	2023-07-01	Buy
12	6	Matthew Wilson	2023-07-02	Hold
13	7	Emily Brown	2023-07-01	Sell
14	7	John Anderson	2023-07-02	Hold
15	8	Sarah Wilson	2023-07-01	Buy
16	8	Daniel Smith	2023-07-02	Hold
17	9	Jessica Thompson	2023-07-01	Buy
18	9	Robert Davis	2023-07-02	Hold
19	10	Lisa Johnson	2023-07-01	Sell
20	10	David Anderson	2023-07-02	Hold

```
20 rows in set (0.00 sec)
```

EARNINGS:-

```
mysql> select * from earnings;
```

earning_id	stock_id	quarter	year	earnings_per_share	revenue	net_income
1	1	1	2023	10.50	500000000.00	200000000.00
2	1	2	2023	11.25	550000000.00	220000000.00
3	2	1	2023	25.75	2000000000.00	800000000.00
4	2	2	2023	27.50	2200000000.00	880000000.00
5	3	1	2023	8.25	1500000000.00	600000000.00
6	3	2	2023	9.00	1750000000.00	700000000.00
7	4	1	2023	15.50	1200000000.00	480000000.00
8	4	2	2023	16.75	1350000000.00	540000000.00
9	5	1	2023	5.75	800000000.00	320000000.00
10	5	2	2023	6.25	900000000.00	360000000.00
11	6	1	2023	19.00	2500000000.00	1000000000.00
12	6	2	2023	20.50	2750000000.00	1100000000.00
13	7	1	2023	10.25	1800000000.00	720000000.00
14	7	2	2023	11.00	2000000000.00	800000000.00
15	8	1	2023	7.50	1000000000.00	400000000.00
16	8	2	2023	8.00	1150000000.00	460000000.00
17	9	1	2023	13.25	1400000000.00	560000000.00
18	9	2	2023	14.50	1600000000.00	640000000.00
19	10	1	2023	4.75	700000000.00	280000000.00
20	10	2	2023	5.25	800000000.00	320000000.00

20 rows in set (0.00 sec)

NEWS:-

```
mysql> select * from news;
```

news_id	stock_id	headline	date	content
1	1	Tata Motors announces new electric vehicle launch	2023-07-01	Tata Motors unveiled its latest electric car model today.
2	1	Tata Motors reports strong quarterly earnings	2023-07-02	Tata Motors posted robust financial results for the last quarter.
3	2	Reliance Industries partners with global energy company	2023-07-01	Reliance Industries announced a strategic alliance with XYZ Energy.
4	2	Reliance Industries to invest in renewable energy projects	2023-07-02	Reliance Industries plans to expand its renewable energy portfolio.
5	3	Infosys wins prestigious technology innovation award	2023-07-01	Infosys was honored with the Innovation Excellence Award for its cutting-edge technology solutions.
6	3	Infosys partners with leading global tech firm for AI research	2023-07-02	Infosys joins forces with ABC Tech to accelerate artificial intelligence research.
7	4	HDFC Bank launches new digital banking app	2023-07-01	HDFC Bank introduces an innovative mobile app with advanced banking features.
8	4	HDFC Bank expands operations with new branch openings	2023-07-02	HDFC Bank inaugurates multiple branches across different cities for enhanced customer accessibility.
9	5	ITC Limited introduces sustainable packaging for its products	2023-07-01	ITC Limited adopts eco-friendly packaging solutions to reduce environmental impact.
10	5	ITC Limited receives recognition for corporate social responsibility efforts	2023-07-02	ITC Limited honored with CSR Excellence Award for its impactful social initiatives.
11	6	Maruti Suzuki India achieves record sales milestone	2023-07-01	Maruti Suzuki India sets a new sales record with its highest monthly sales figures.
12	6	Maruti Suzuki India to launch new SUV model	2023-07-02	Maruti Suzuki India announces the upcoming launch of its latest SUV model.
13	7	State Bank of India introduces instant payment feature in mobile banking app	2023-07-01	State Bank of India enables instant fund transfers through its mobile banking app.
14	7	State Bank of India partners with fintech startup for digital lending services	2023-07-02	State Bank of India collaborates with XYZ Fintech to offer hassle-free digital lending solutions.
15	8	Hindustan Unilever launches new range of organic personal care products	2023-07-01	Hindustan Unilever unveils a premium line of organic skincare and haircare products.
16	8	Hindustan Unilever recognized as a sustainable business leader	2023-07-02	Hindustan Unilever receives the Sustainable Business Excellence Award for its commitment to environmental responsibility.
17	9	Axis Bank introduces AI-powered chatbot for customer support	2023-07-01	Axis Bank launches an intelligent virtual assistant to provide seamless customer service.
18	9	Axis Bank expands international presence with new branch openings	2023-07-02	Axis Bank strengthens its global footprint with the inauguration of branches in key international markets.
19	10	Wipro wins major IT services contract from global conglomerate	2023-07-01	Wipro secures a significant IT services deal with ABC Corporation for digital transformation initiatives.
20	10	Wipro recognized as a leader in technology innovation	2023-07-02	Wipro receives the Innovation Excellence Award for its groundbreaking technological advancements.

PORTFOLIOS:-

```
mysql> select * from portfolios;
```

portfolio_id	name	description
1	Tech Stocks	Portfolio of technology sector stocks
2	Blue Chip Companies	Portfolio of large, established companies
3	Dividend Stocks	Portfolio of stocks with consistent dividend payouts
4	Growth Stocks	Portfolio of high-growth potential stocks
5	Value Stocks	Portfolio of undervalued stocks with potential for future growth
6	Banking Sector	Portfolio of stocks from the banking and financial services sector
7	FMCG Companies	Portfolio of fast-moving consumer goods companies
8	Automotive Sector	Portfolio of stocks from the automotive industry
9	Healthcare Stocks	Portfolio of stocks from the healthcare sector
10	Energy Companies	Portfolio of stocks from the energy and utilities sector
11	Infrastructure Investments	Portfolio of stocks from the infrastructure and construction industry
12	Mid-Cap Stocks	Portfolio of mid-sized companies with growth potential
13	Large-Cap Stocks	Portfolio of large-cap companies with stable performance
14	Small-Cap Stocks	Portfolio of small-cap companies with high growth prospects
15	Technology Innovators	Portfolio of innovative technology companies
16	Consumer Discretionary	Portfolio of stocks from the consumer discretionary sector
17	Consumer Staples	Portfolio of stocks from the consumer staples sector
18	Telecommunications	Portfolio of stocks from the telecommunications industry
19	Pharmaceutical Stocks	Portfolio of pharmaceutical companies
20	Retail Sector	Portfolio of stocks from the retail industry

20 rows in set (0.00 sec)

SUBQUERY: -

Question: Which stocks had either dividends with ex-dividend dates after '2022-01-01' or earnings reported for the first quarter of 2022?:-

```
mysql> SELECT *
-> FROM Stocks
-> WHERE stock_id IN (
->   SELECT stock_id
->   FROM Dividends
->   WHERE ex_dividend_date > '2022-01-01'
-> UNION
->   SELECT stock_id
->   FROM Earnings
->   WHERE year = 2022 AND quarter = 1
-> );
```

stock_id	company_id	symbol	exchange	listing_date
1	1	TATAMOTORS	NSE	2004-07-01
2	1	TATAMOTORS	BSE	2004-07-01
3	2	RELIANCE	NSE	1977-03-01
4	2	RELIANCE	BSE	1977-03-01
5	3	INFY	NSE	1993-06-14
6	3	INFY	BSE	1993-06-14
7	4	HDFCBANK	NSE	1995-11-17
8	4	HDFCBANK	BSE	1995-11-17
9	5	ITC	NSE	1991-08-27
10	5	ITC	BSE	1991-08-27

10 rows in set (0.00 sec)

Question: Which companies in the "Technology" sector have issued dividends and also have analyst ratings?

```
mysql> use stockmarketdb
Database changed
mysql> SELECT company_id, name, sector, industry
-> FROM Companies
-> WHERE company_id IN (
->   SELECT stock_id
->   FROM Dividends
->   WHERE stock_id IN (
->     SELECT stock_id
->     FROM Analyst_Ratings
->   )
-> )
-> AND sector = 'Technology';
```

```
+-----+-----+-----+-----+
| company_id | name   | sector   | industry   |
+-----+-----+-----+-----+
|          3 | Infosys | Technology | IT Services |
|          10 | Wipro   | Technology | IT Services |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

Question: Which companies have issued dividends and also have analyst ratings with a rating of "Buy"?

```
mysql> SELECT *  
-> FROM Companies  
-> WHERE company_id IN (  
->   SELECT stock_id  
->   FROM Dividends  
-> )  
-> AND company_id IN (  
->   SELECT stock_id  
->   FROM Analyst_Ratings  
->   WHERE rating = 'Buy'  
-> );
```

company_id	name	sector	industry
1	Tata Motors	Automotive	Manufacturing
2	Reliance Industries	Conglomerate	Energy
4	HDFC Bank	Financials	Banking
5	ITC Limited	Consumer Goods	FMCG
6	Maruti Suzuki India	Automotive	Manufacturing
8	Hindustan Unilever	Consumer Goods	FMCG
9	Axis Bank	Financials	Banking

7 rows in set (0.00 sec)

Question: Which stocks have issued dividends and also have positive earnings in the last quarter?

```
mysql> SELECT *
-> FROM Stocks
-> WHERE stock_id IN (
->   SELECT stock_id
->   FROM Dividends
-> )
-> AND stock_id IN (
->   SELECT stock_id
->   FROM Earnings
->   WHERE quarter = (SELECT MAX(quarter) FROM Earnings)
->   AND net_income > 0
-> );
```

stock_id	company_id	symbol	exchange	listing_date
1	1	TATAMOTORS	NSE	2004-07-01
2	1	TATAMOTORS	BSE	2004-07-01
3	2	RELIANCE	NSE	1977-03-01
4	2	RELIANCE	BSE	1977-03-01
5	3	INFY	NSE	1993-06-14
6	3	INFY	BSE	1993-06-14
7	4	HDFCBANK	NSE	1995-11-17
8	4	HDFCBANK	BSE	1995-11-17
9	5	ITC	NSE	1991-08-27
10	5	ITC	BSE	1991-08-27

10 rows in set (0.00 sec)

JOINS:-

Question: Which companies have issued dividends and also have analyst ratings? Retrieve all matching companies, including those with analyst ratings.

Select * from companies left join devidends on
companies.company_id=dividends.stock_id

Inner join analyst_ratings on
companies.company_id=analyst_ratings.stock_id;

```
mysql> SELECT *
-> FROM Companies
-> LEFT JOIN Dividends ON Companies.company_id = Dividends.stock_id
-> INNER JOIN Analyst_Ratings ON Companies.company_id = Analyst_Ratings.stock_id;
```

company_id	name	sector	industry	dividend_id	stock_id	ex_dividend_date	dividend_amount	rating_id	stock_id	analyst_name	rating_date	rating
1	Tata Motors	Automotive	Manufacturing	1	1	2022-06-30	5.00	1	1	John Smith	2023-07-01	Buy
1	Tata Motors	Automotive	Manufacturing	2	1	2022-12-31	4.50	1	1	John Smith	2023-07-01	Buy
1	Tata Motors	Automotive	Manufacturing	1	1	2023-06-30	5.00	2	1	Emily Johnson	2023-07-02	Hold
1	Tata Motors	Automotive	Manufacturing	2	1	2022-12-31	4.50	2	1	Emily Johnson	2023-07-02	Hold
2	Reliance Industries	Conglomerate	Energy	3	2	2023-06-30	12.50	3	2	David Thompson	2023-07-01	Buy
2	Reliance Industries	Conglomerate	Energy	4	2	2022-12-31	11.75	3	2	David Thompson	2023-07-01	Buy
2	Reliance Industries	Conglomerate	Energy	3	2	2023-06-30	12.50	4	2	Sarah Davis	2023-07-02	Hold
2	Reliance Industries	Conglomerate	Energy	4	2	2022-12-31	11.75	4	2	Sarah Davis	2023-07-02	Hold
3	Infosys	Technology	IT Services	5	3	2023-06-30	2.50	5	3	Michael Wilson	2023-07-01	Sell
3	Infosys	Technology	IT Services	6	3	2022-12-31	2.25	5	3	Michael Wilson	2023-07-01	Sell
3	Infosys	Technology	IT Services	5	3	2023-06-30	2.50	6	3	Jennifer Brown	2023-07-02	Hold
3	Infosys	Technology	IT Services	6	3	2022-12-31	2.25	6	3	Jennifer Brown	2023-07-02	Hold
4	HDFC Bank	Financials	Banking	7	4	2023-06-30	6.00	7	4	Robert Johnson	2023-07-01	Buy
4	HDFC Bank	Financials	Banking	8	4	2022-12-31	5.50	7	4	Robert Johnson	2023-07-01	Buy
4	HDFC Bank	Financials	Banking	7	4	2023-06-30	6.00	8	4	Lisa Smith	2023-07-02	Hold
4	HDFC Bank	Financials	Banking	8	4	2022-12-31	5.50	8	4	Lisa Smith	2023-07-02	Hold
5	ITC Limited	Consumer Goods	FMCG	9	5	2023-06-30	3.50	9	5	Daniel Anderson	2023-07-01	Buy
5	ITC Limited	Consumer Goods	FMCG	10	5	2022-12-31	3.25	9	5	Daniel Anderson	2023-07-01	Buy
5	ITC Limited	Consumer Goods	FMCG	9	5	2023-06-30	3.50	10	5	Amy Thompson	2023-07-02	Hold
5	ITC Limited	Consumer Goods	FMCG	10	5	2022-12-31	3.25	10	5	Amy Thompson	2023-07-02	Hold
6	Maruti Suzuki India	Automotive	Manufacturing	11	6	2023-06-30	8.00	11	6	Michelle Davis	2023-07-01	Buy
6	Maruti Suzuki India	Automotive	Manufacturing	12	6	2022-12-31	7.50	11	6	Michelle Davis	2023-07-01	Buy
6	Maruti Suzuki India	Automotive	Manufacturing	11	6	2023-06-30	8.00	12	6	Matthew Wilson	2023-07-02	Hold
6	Maruti Suzuki India	Automotive	Manufacturing	12	6	2022-12-31	7.50	12	6	Matthew Wilson	2023-07-02	Hold
7	State Bank of India	Financials	Banking	13	7	2023-06-30	4.50	13	7	Emily Brown	2023-07-01	Sell
7	State Bank of India	Financials	Banking	14	7	2022-12-31	4.25	13	7	Emily Brown	2023-07-01	Sell
7	State Bank of India	Financials	Banking	13	7	2023-06-30	4.50	14	7	John Anderson	2023-07-02	Hold
7	State Bank of India	Financials	Banking	14	7	2022-12-31	4.25	14	7	John Anderson	2023-07-02	Hold
8	Hindustan Unilever	Consumer Goods	FMCG	15	8	2023-06-30	3.00	15	8	Sarah Wilson	2023-07-01	Buy
8	Hindustan Unilever	Consumer Goods	FMCG	16	8	2022-12-31	2.75	15	8	Sarah Wilson	2023-07-01	Buy
8	Hindustan Unilever	Consumer Goods	FMCG	15	8	2023-06-30	3.00	16	8	Daniel Smith	2023-07-02	Hold
8	Hindustan Unilever	Consumer Goods	FMCG	16	8	2022-12-31	2.75	16	8	Daniel Smith	2023-07-02	Hold
9	Axis Bank	Financials	Banking	17	9	2023-06-30	5.50	17	9	Jessica Thompson	2023-07-01	Buy
9	Axis Bank	Financials	Banking	18	9	2022-12-31	5.25	17	9	Jessica Thompson	2023-07-01	Buy
9	Axis Bank	Financials	Banking	17	9	2023-06-30	5.50	18	9	Robert Davis	2023-07-02	Hold
9	Axis Bank	Financials	Banking	18	9	2022-12-31	5.25	18	9	Robert Davis	2023-07-02	Hold
10	Wipro	Technology	IT Services	19	10	2023-06-30	2.00	19	10	Lisa Johnson	2023-07-01	Sell
10	Wipro	Technology	IT Services	20	10	2022-12-31	1.75	19	10	Lisa Johnson	2023-07-01	Sell
10	Wipro	Technology	IT Services	19	10	2023-06-30	2.00	20	10	David Anderson	2023-07-02	Hold
10	Wipro	Technology	IT Services	20	10	2022-12-31	1.75	20	10	David Anderson	2023-07-02	Hold

40 rows in set (0.00 sec)

Question: Display the companies and which type of industry that is with listing date?

Select

companies.name,companies.sector,companies.industry,stock.symbol,stock.listing_date from companies right join stocks on companies.company_id=stocks.stock_id;

```
mysql> select companies.name,companies.sector,companies.industry,stocks.symbol,stocks.listing_date from companies right join stocks on companies.company_id=stocks.stock_id;
```

name	sector	industry	symbol	listing_date
Tata Motors	Automotive	Manufacturing	TATAMOTORS	2004-07-01
Reliance Industries	Conglomerate	Energy	TATAMOTORS	2004-07-01
Infosys	Technology	IT Services	RELIANCE	1977-03-01
HDFC Bank	Financials	Banking	RELIANCE	1977-03-01
ITC Limited	Consumer Goods	FMCG	INFY	1993-06-14
Maruti Suzuki India	Automotive	Manufacturing	INFY	1993-06-14
State Bank of India	Financials	Banking	HDFCBANK	1995-11-17
Hindustan Unilever	Consumer Goods	FMCG	HDFCBANK	1995-11-17
Axis Bank	Financials	Banking	ITC	1991-08-27
Wipro	Technology	IT Services	ITC	1991-08-27
Bharti Airtel	Telecommunications	Telecom	MARUTI	2003-07-09
Mahindra & Mahindra	Automotive	Manufacturing	MARUTI	2003-07-09
TCS (Tata Consultancy Services)	Technology	IT Services	SBIN	1995-09-20
HCL Technologies	Technology	IT Services	SBIN	1995-09-20
ICICI Bank	Financials	Banking	HINDUNILVR	1991-07-25
Asian Paints	Materials	Paints	HINDUNILVR	1991-07-25
Larsen & Toubro	Industrials	Construction	AXISBANK	1998-11-16
Sun Pharmaceutical Industries	Healthcare	Pharmaceuticals	AXISBANK	1998-11-16
Adani Ports and Special Economic Zone	Industrials	Ports	WIPRO	1995-11-11
Dr. Reddy	s Laboratories	Healthcare	WIPRO	1995-11-11

20 rows in set (0.00 sec)

Question: Display the open and close price of all stocks?

select stocks.symbol,stock_prices.open_price,stock_prices.close_price from stock_prices join stocks on stocks.stock_id=stock_prices.stock_id;

```
mysql> select stocks.symbol,stock_prices.open_price,stock_prices.close_price from stock_prices join stocks on stocks.stock_id=stock_prices.stock_id;
```

symbol	open_price	close_price
TATAMOTORS	400.50	410.75
TATAMOTORS	410.00	415.50
TATAMOTORS	1100.00	1125.50
TATAMOTORS	1125.75	1132.00
RELIANCE	3000.00	3020.25
RELIANCE	3010.00	3025.50
RELIANCE	2400.50	2415.25
RELIANCE	2420.00	2430.75
INFY	220.50	225.25
INFY	225.00	230.50
INFY	8000.00	8055.75
INFY	8055.00	8075.50
HDFCBANK	500.50	505.25
HDFCBANK	505.00	510.50
HDFCBANK	2500.00	2515.25
HDFCBANK	2510.00	2520.75
ITC	1500.50	1515.25
ITC	1515.00	1520.50
ITC	600.50	605.25
ITC	605.00	610.50

20 rows in set (0.00 sec)

