```sql
create database stocks_market_analysis;

use stocks_market_analysis;

select * from stocks_analysis;

-- 1. Yearly Stock Price Variation--
select `Year`,
        MAX(`Tata High`) AS highest_price,
        MIN(`Tata Low`) AS lowest_price
from stocks_analysis
group by `Year`
order by `Year`;


-- 2. Monthly Stock Price Variation--
select `month`,
`Year`,
        MAX(`Tata High`) AS highest_price,
        MIN(`Tata Low`) AS lowest_price
from stocks_analysis
group by `month`,
`Year`
order by `month`,
`Year`;
```

```sql
-- 3. Quarter Stock Price Variation--
select `quarter`,
`Year`,
        MAX(`Tata High`) AS highest_price,
        MIN(`Tata Low`) AS lowest_price
from stocks_analysis
group by `quarter`,
`Year`
order by `quarter`,
`Year`;


-- 4. Stockwise Quarterly Average Volume --
select `Stock ID`,
        `Year`,
        `Quarter`,
        avg(`Tata Volume`) AS avg_volume
from stocks_analysis
group by `Stock ID`,
`Year`,
`Quarter`
order by `Stock ID`,
`Year`,
`Quarter`;
```

```sql
54      -- 5. Stockwise Monthly Average Volume --
55  •   select `Stock ID`,
56             `Year`,
57             `month`,
58             avg(`Tata Volume`) AS avg_volume
59      from stocks_analysis
60      group by `Stock ID`,
61      `Year`,
62      `month`
63      order by `Stock ID`,
64      `Year`,
65      `month`;
66
67
68      -- 6. Stockwise Yearly Average Volume --
69  •   select `Stock ID`,
70             `Year`,
71             avg(`Tata Volume`) AS avg_volume
72      from stocks_analysis
73      group by `Stock ID`,
74      `Year`
75      order by `Stock ID`,
76      `Year`;
77
78
79      -- 7. Stockwise Monthly Profit --
80  • ⊖ select * from (select `Stock ID`,
81             `month`,
82             ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Monthly_Returns
83      from stocks_analysis
84      order by `Stock ID`,
85      `month`) as Monthly_profit
86      where Monthly_Returns > '0';
87
```

```sql
89      -- 8. Stockwise Monthly Loss --
90  ●⊖  select * from (select `Stock ID`,
91              `month`,
92              ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Monthly_Returns
93      from stocks_analysis
94      order by `Stock ID`,
95      `month`) as Monthly_loss
96      where Monthly_Returns < '0';
97
98
99      -- 9. Stockwise Yearly Profit --
100 ●⊖  select * from (select `Stock ID`,
101              `year`,
102              ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Yearly_Returns
103     from stocks_analysis
104     order by `Stock ID`,
105     `year`) as Yearly_Profit
106     where Yearly_Returns > '0';
107
108
109     -- 10. Maximum Yearly Return --
110 ●   select max(Yearly_Returns)
111  ⊖  from (select `Stock ID`,
112              `year`,
113              ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Yearly_Returns
114     from stocks_analysis
115     order by `Stock ID`,
116     `year`) as Yearly_Profit
117     where Yearly_Returns > '0';
118
119
```

```sql
120     -- 11. Stockwise Yearly Loss --
121  ● ⊖ select * from (select `Stock ID`,
122            `year`,
123            ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Yearly_Returns
124     from stocks_analysis
125     order by `Stock ID`,
126     `year`) as Yearly_loss
127     where Yearly_Returns < '0';
128
129
130     -- 12. Minimum Yearly Return --
131  ●  select min(Yearly_Returns)
132   ⊖ from (select `Stock ID`,
133            `year`,
134            ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Yearly_Returns
135     from stocks_analysis
136     order by `Stock ID`,
137     `year`) as Yearly_loss
138     where Yearly_Returns < '0';
139
140
141     -- 13. Stockwise Quarterly Profit --
142  ● ⊖ select * from (select `Stock ID`,
143            `quarter`,
144            ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Quarterly_Returns
145     from stocks_analysis
146     order by `Stock ID`,
147     `quarter`) as Quarterly_profit
148     where Quarterly_Returns > '0';
149
150
```

```
151     -- 14. Stockwise Quarterly Loss --
152   ⊖ select * from (select `Stock ID`,
153          `quarter`,
154          ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Quarterly_Returns
155     from stocks_analysis
156     order by `Stock ID`,
157     `quarter`) as Quarterly_loss
158     where Quarterly_Returns < '0';
```

```sql
121
122     -- 15. Stockwise Daily Profit --
123 ● ⊖ select * from (select `Stock ID`,
124             `year`,
125             ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Daily_Returns
126     from stocks_analysis
127     order by `Stock ID`,
128     `year`) as Daily_Profit
129     where Daily_Returns > '0';
130
131
132     -- 16. Stockwise Daily Loss --
133 ● ⊖ select * from (select `Stock ID`,
134             `year`,
135             ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Daily_Returns
136     from stocks_analysis
137     order by `Stock ID`,
138     `year`) as Daily_loss
139     where Daily_Returns < '0';
140
141
142     -- 17. Maximum Daily Return --
143 ●   select max(Daily_Returns)
144   ⊖ from (select `Stock ID`,
145             `year`,
146             ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Daily_Returns
147     from stocks_analysis
148     order by `Stock ID`,
149     `year`) as Daily_Profit
150     where Daily_Returns > '0';
151
```

```sql
152
153        -- 18. Minimum Daily Return --
154   ●    select min(Daily_Returns)
155   ⊖    from (select `Stock ID`,
156                   `year`,
157                   ((`Tata Close` - `Tata Open`) / `Tata Open`) * 100 as Daily_Returns
158        from stocks_analysis
159        order by `Stock ID`,
160        `year`) as Daily_Profit
161        where Daily_Returns < '0';
```