



Cafépedia

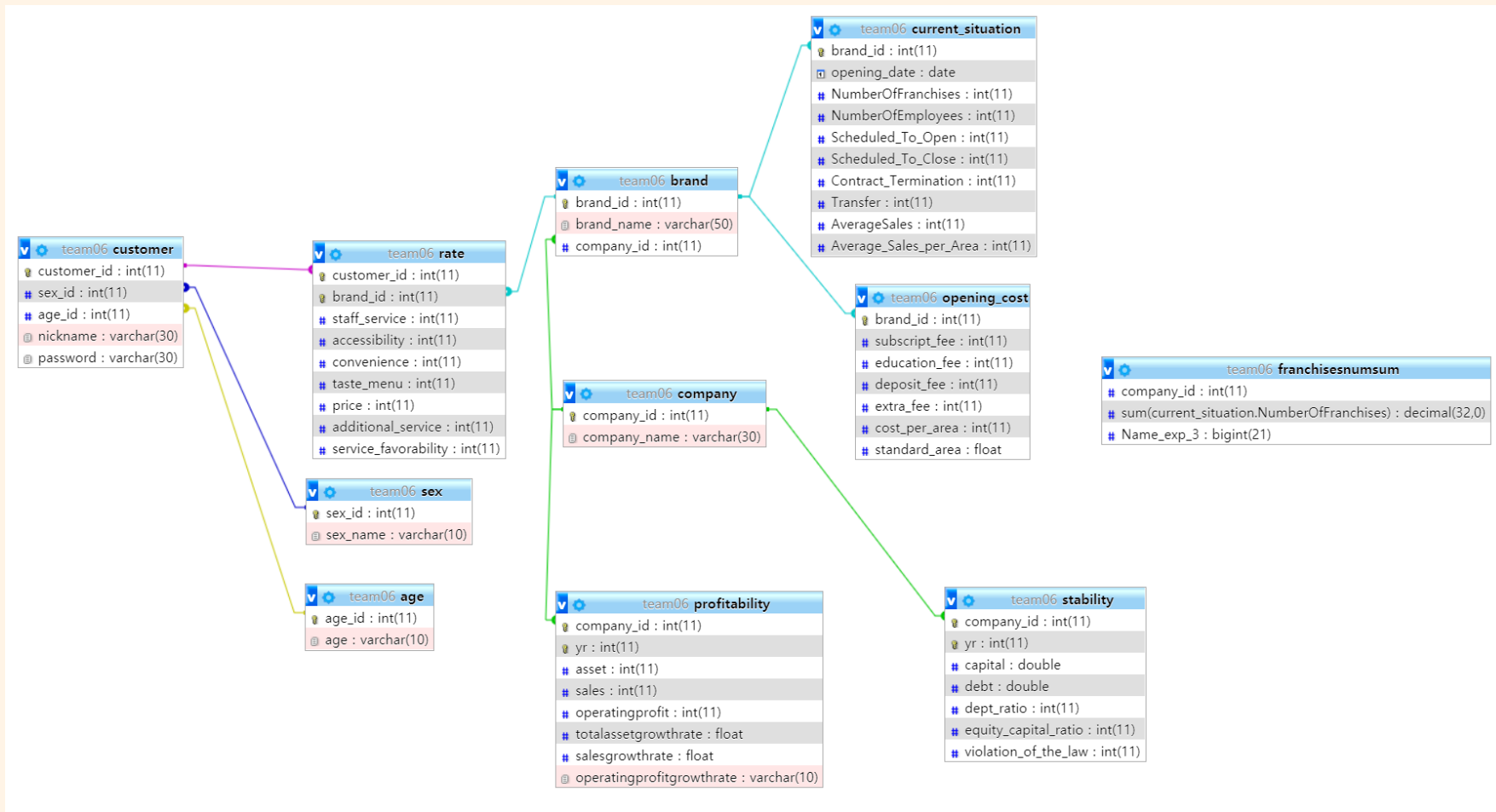
Big Data Application Project

Analysis of Cafe Brands and Companies Data

1615008 김소림
1615009 김소현
1615049 이서라



Database





5 Advanced Queries

1. Windowing

```
SELECT company_id, yr, sales, SUM(sales)
OVER(PARTITION BY company_id
ORDER BY yr ROWS BETWEEN UNBOUNDED
PRECEDING AND CURRENT ROW) as accum
FROM profitability WHERE company_id=$company_id
```

2. NTILE

```
SELECT stability.company_id, debt, ntile(5) over(order by
debt asc) as debt_rank
FROM stability
GROUP BY stability.company_id;
```

3. RANK

```
SELECT company.company_id,
stability.capital,company.company_name ,rank() over (order by
stability.capital DESC) num
FROM stability, company
WHERE stability.company_id=company.company_id
AND stability.yr=2020
```

4. DENSE RANK

```
SELECT brand.brand_name, AVG(rate.staff_service) as avg,
DENSE_RANK() OVER (ORDER BY avg DESC) AS rank
FROM rate, customer,brand
WHERE rate.customer_id=customer.customer_id
AND customer.sex_id=1 AND brand.brand_id=rate.brand_id
AND customer.age_id=1
GROUP BY rate.brand_id
ORDER BY AVG(rate.staff_service) DESC
```

5. ROLL UP

```
SELECT brand.company_id, brand.brand_name,
current_situation.opening_date,
SUM(current_situation.NumberOfFranchises) as numfran,
SUM(current_situation.NumberOfEmployees) as numemp,
SUM(current_situation.AverageSales) as avsales,
SUM(current_situation.Average_Sales_per_Area)
as avesalesperarea
FROM current_situation, brand, company
WHERE current_situation.brand_id = brand.brand_id and
company.company_id = brand.company_id and
company.company_id = $company_id
GROUP BY brand.company_id, brand.brand_name WITH ROLLUP
```