**ASNOWFLAKE SCHEMA | DB design FOR IBRD PROJECT**

Fact Table

IBRD-PROJECT

Date\_id

Loan\_id

3rd\_Party\_id

Region\_id

Borrower\_id

Project\_id

Project\_name

Dimensional Table

LOAN

Loan\_guarantor\_id

Loan\_id

Loan\_number

Loan\_type

Loan\_status

Interest\_rate

Loans\_held

Amount\_id

Dimensional Table

IBRD

Repaid\_amount\_id

Repaid\_to\_IBRD

Due\_to\_IBRD

Dimensional Table

AMOUNT

Amount\_id

Original\_principal\_amount

Canceled\_amount

UN\_disbursed\_amount

Disbursed\_amount

Repaid\_amount\_id

Dimensional Table

DATE

Date\_id

First\_repayment\_date

Agreement\_signing\_date

Last\_repayment\_date

Board\_approval\_date

Effective\_date

Closed\_date

Last\_disbursement\_date

End\_of\_period

Dimensional Table

REGION

Region\_id

Country\_id

Dimensional Table

LOAN\_GUARANTOR

Loan\_guarantor\_id

Guarantor\_country\_code

Guarantor\_name

Dimensional Table

BORROWER

Borrower\_id

Borrower\_name

Borrower\_obligations

Dimensional Table

3rd PARTY

3rd\_Party\_id

Sold\_3rd\_party

Repaid\_3rd\_party

Due\_3rd\_party

Exchange\_adjustment

Dimensional Table

COUNTRY

Country\_id

Country\_code

Country\_name

Currency\_of\_commitment

The IBRD Snowflake Schema contains 10 tables i.e Project is a fact table and other 9 dimension tables.

The dimension tables are ****normalized**** which splits data into additional tables.forexample

The data structure of a Loan dimension table was further normalised to form the data structures of loan\_guarantor and amount tables.

The data structure of a Region dimension table was further normalised to form the data structures of country table.

The data structure of Amount dimension table was further normalised to form the data structures of IBRD table.

****Challenge experienced when coming up with IBRD Snowflake Schema:****

It required to perform more efforts building because of the more lookup tables I.e the IBRD, Amount , e.t.c. and comprised of many joins to fetch the data.