----------------Gathering stats to know the execution time for query------------

exec dbms\_stats.gather\_table\_stats('ADMIN','APARTMENT\_UTILITY');--gather stats

explain plan for SELECT APARTMENT.APARTMENT\_ID, APARTMENT\_UTILITY.UTILITY\_ID, UTILITY.UTILITY\_NAME FROM APARTMENT

JOIN APARTMENT\_UTILITY ON APARTMENT.APARTMENT\_ID=APARTMENT\_UTILITY.APARTMENT\_ID

JOIN UTILITY ON APARTMENT\_UTILITY.UTILITY\_ID=UTILITY.UTILITY\_ID

WHERE APARTMENT\_UTILITY.IS\_INCLUDED\_IN\_RENT= 'Yes' order by utility.utility\_id,apartment.apartment\_id;-------explains stats

select \* from table(dbms\_Xplan.display);---displays execution time-----------0.105 secs

Graphical user interface, text, application

Description automatically generated

-------------Creating index on Included\_rent column------------------------------

CREATE INDEX INDEX\_APARTMENT\_UTILITY

ON APARTMENT\_UTILITY(IS\_INCLUDED\_IN\_RENT);

-----------After index creation-----------------

exec dbms\_stats.gather\_table\_stats('ADMIN','APARTMENT\_UTILITY');--gather stats

explain plan for SELECT APARTMENT.APARTMENT\_ID, APARTMENT\_UTILITY.UTILITY\_ID, UTILITY.UTILITY\_NAME FROM APARTMENT

JOIN APARTMENT\_UTILITY ON APARTMENT.APARTMENT\_ID=APARTMENT\_UTILITY.APARTMENT\_ID

JOIN UTILITY ON APARTMENT\_UTILITY.UTILITY\_ID=UTILITY.UTILITY\_ID

WHERE APARTMENT\_UTILITY.IS\_INCLUDED\_IN\_RENT= 'Yes' order by utility.utility\_id,apartment.apartment\_id;-------explains stats

select \* from table(dbms\_Xplan.display);---displays execution time-----------0.71 secs secs

0.105 secs

Graphical user interface, application

Description automatically generated