**Database and Management System**

Database Project

**Database for keeping Farmer Analysis Package**

**Que 1:**

SELECT F.FNAME, F.FID FROM FARMER\_DETAILS AS F

NATURAL JOIN MEMBER\_DETAILS AS M

WHERE MEMBER\_STATUS<=5;

**Que 2:**

SELECT SID,TEXTURE FROM SOIL

NATURAL JOIN LAND\_DETAILS AS K

NATURAL JOIN

(SELECT FAR\_ID FROM (

SELECT CROP\_ID,MAX(QUANTITY \* VALUE\_OUTPUT - P\_QUANTITY \* P\_UNIT) FROM SOLD\_DETAILS

NATURAL JOIN PURCHASE\_DETAILS

GROUP BY CROP\_ID) as R1 JOIN FARMER\_HAS\_CROPS as R2 ON R1.CROP\_ID=R2.CROP\_ID) AS D;

**Que 3:**

SELECT F.FID, F.FNAME, (S.VALUE\_OUTPUT-P.PURCHASED\_VALUE) FROM FARMER\_DETAILS AS F

NATURAL JOIN PURCHASE\_DETAILS AS P

NATURAL JOIN SOLD\_DETAILS AS S

WHERE EXTRACT (YEAR FROM S.HARVESTED\_DATE)='2022';

**Que 4:**

SELECT ((VALUE\_OF\_AREA+ TOTAL\_AREA +I\_PRESENT\_VALUE+PRESENT\_VALUE)/TOTAL\_AREA) FROM FARMER\_DETAILS

NATURAL JOIN LAND\_DETAILS

NATURAL JOIN PURCHASE\_DETAILS

NATURAL JOIN ITEM\_DETAILS

NATURAL JOIN IRRIGATION\_DETAILS;

**Que 5:**

SELECT F.FID, F.FNAME FROM FARMER\_DETAILS AS F

NATURAL JOIN WORKER\_WORKS\_FOR AS WWF

NATURAL JOIN WORKER\_DETAILS AS W

GROUP BY F.FID, F.FNAME

ORDER BY COUNT(W.WNAME) DESC LIMIT 3;

**Que 6:**

SELECT \* FROM FARMER\_DETAILS

WHERE FID NOT IN

(SELECT FID FROM

((SELECT FID FROM

(SELECT CROP\_ID FROM FARMER\_HAS\_CROPS ) AS P CROSS JOIN

(SELECT DISTINCT FID from FARMER\_DETAILS) AS SP)

EXCEPT

(SELECT FAR\_ID FROM FARMER\_HAS\_CROPS ) ) AS R );

**Que 7:**

SELECT COUNT(F.FAR\_ID) FROM ITEM\_HAS AS F

WHERE F.INAME = 'Tractor'

EXCEPT

SELECT F1.FAR\_ID FROM ITEM\_HAS AS F1

WHERE F1.INAME='Sickle' AND F1.INAME='Tractor';

**Que 8:**

SELECT COUNT(INAME),FID FROM ITEM\_HAS

JOIN FARMER\_DETAILS ON FID=FAR\_ID

GROUP BY FID

ORDER BY FID;

**Que 9:**

SELECT FID FROM MEMBER\_DETAILS AS M

JOIN FARMER\_DETAILS AS F

ON FID= FAR\_ID

EXCEPT

SELECT FAR\_ID FROM MEMBER\_DETAILS AS M

WHERE M.M\_EDUCATION= 'High School'

GROUP BY FAR\_ID

HAVING COUNT(FAR\_ID)>=1

ORDER BY FID;

**Que 10:**

SELECT L.METHOD\_OF\_IRRIGATION FROM LAND\_DETAILS AS L

NATURAL JOIN FARMER\_HAS\_CROPS AS F

NATURAL JOIN SOLD\_DETAILS AS S

WHERE EXTRACT (MONTH FROM S.HARVESTED\_DATE)>='06' AND EXTRACT (MONTH FROM S.HARVESTED\_DATE)<='08';

**Que 11:**

SELECT L.SOIL\_ID, S1.TEXTURE, MAX(S.QUANTITY/P.P\_QUANTITY) FROM LAND\_DETAILS AS L

NATURAL JOIN SOIL AS S1

NATURAL JOIN SOLD\_DETAILS AS S

NATURAL JOIN PURCHASE\_DETAILS AS P

GROUP BY L.SOIL\_ID,S1.TEXTURE, (S.QUANTITY/P.P\_QUANTITY)

HAVING (S.QUANTITY/P.P\_QUANTITY)=50 ;

**Que 12:**

SELECT S.FAR\_ID, FNAME FROM FARMER\_DETAILS

NATURAL JOIN LAND\_DETAILS AS L

--NATURAL JOIN FARMER\_HAS\_CROPS AS F

NATURAL JOIN SOLD\_DETAILS AS S

WHERE L.TOTAL\_AREA<10 AND S.HARVESTED\_OUTPUT<60;

**Que 13:**

SELECT F.INCOME FROM FMANE AS F

GROUP BY FID;

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