SELECT \* FROM sql\_cx\_live.laptops;

SELECT \* FROM laptops;

CREATE TABLE laptops\_backup LIKE laptops;

INSERT INTO laptops\_backup

SELECT \* FROM laptops;

SELECT DATA\_LENGTH/1024 FROM information\_schema.TABLES

WHERE TABLE\_SCHEMA = 'sql\_cx\_live'

AND TABLE\_NAME = 'laptops';

SELECT \* FROM laptops;

ALTER TABLE laptops DROP COLUMN `Unnamed: 0`;

SELECT \* FROM laptops;

DELETE FROM laptops

WHERE `index` IN (SELECT `index` FROM laptops

WHERE Company IS NULL AND TypeName IS NULL AND Inches IS NULL

AND ScreenResolution IS NULL AND Cpu IS NULL AND Ram IS NULL

AND Memory IS NULL AND Gpu IS NULL AND OpSys IS NULL AND

WEIGHT IS NULL AND Price IS NULL);

ALTER TABLE laptops MODIFY COLUMN Inches DECIMAL(10,1);

SELECT \* FROM laptops;

UPDATE laptops l1

SET Ram = (SELECT REPLACE(Ram,'GB','') FROM laptops l2 WHERE l2.index = l1.index);

SELECT \* FROM laptops;

ALTER TABLE laptops MODIFY COLUMN Ram INTEGER;

SELECT DATA\_LENGTH/1024 FROM information\_schema.TABLES

WHERE TABLE\_SCHEMA = 'sql\_cx\_live'

AND TABLE\_NAME = 'laptops';

UPDATE laptops l1

SET Weight = (SELECT REPLACE(Weight,'kg','')

FROM laptops l2 WHERE l2.index = l1.index);

SELECT \* FROM laptops;

UPDATE laptops l1

SET Price = (SELECT ROUND(Price)

FROM laptops l2 WHERE l2.index = l1.index);

ALTER TABLE laptops MODIFY COLUMN Price INTEGER;

SELECT DISTINCT OpSys FROM laptops;

-- mac

-- windows

-- linux

-- no os

-- Android chrome(others)

SELECT OpSys,

CASE

WHEN OpSys LIKE '%mac%' THEN 'macos'

WHEN OpSys LIKE 'windows%' THEN 'windows'

WHEN OpSys LIKE '%linux%' THEN 'linux'

WHEN OpSys = 'No OS' THEN 'N/A'

ELSE 'other'

END AS 'os\_brand'

FROM laptops;

UPDATE laptops

SET OpSys =

CASE

WHEN OpSys LIKE '%mac%' THEN 'macos'

WHEN OpSys LIKE 'windows%' THEN 'windows'

WHEN OpSys LIKE '%linux%' THEN 'linux'

WHEN OpSys = 'No OS' THEN 'N/A'

ELSE 'other'

END;

SELECT \* FROM laptops;

ALTER TABLE laptops

ADD COLUMN gpu\_brand VARCHAR(255) AFTER Gpu,

ADD COLUMN gpu\_name VARCHAR(255) AFTER gpu\_brand;

SELECT \* FROM laptops;

UPDATE laptops l1

SET gpu\_brand = (SELECT SUBSTRING\_INDEX(Gpu,' ',1)

FROM laptops l2 WHERE l2.index = l1.index);

UPDATE laptops l1

SET gpu\_name = (SELECT REPLACE(Gpu,gpu\_brand,'')

FROM laptops l2 WHERE l2.index = l1.index);

SELECT \* FROM laptops;

ALTER TABLE laptops DROP COLUMN Gpu;

SELECT \* FROM laptops;

ALTER TABLE laptops

ADD COLUMN cpu\_brand VARCHAR(255) AFTER Cpu,

ADD COLUMN cpu\_name VARCHAR(255) AFTER cpu\_brand,

ADD COLUMN cpu\_speed DECIMAL(10,1) AFTER cpu\_name;

SELECT \* FROM laptops;

UPDATE laptops l1

SET cpu\_brand = (SELECT SUBSTRING\_INDEX(Cpu,' ',1)

FROM laptops l2 WHERE l2.index = l1.index);

UPDATE laptops l1

SET cpu\_speed = (SELECT CAST(REPLACE(SUBSTRING\_INDEX(Cpu,' ',-1),'GHz','')

AS DECIMAL(10,2)) FROM laptops l2

WHERE l2.index = l1.index);

UPDATE laptops l1

SET cpu\_name = (SELECT

REPLACE(REPLACE(Cpu,cpu\_brand,''),SUBSTRING\_INDEX(REPLACE(Cpu,cpu\_brand,''),' ',-1),'')

FROM laptops l2

WHERE l2.index = l1.index);

SELECT \* FROM laptops;

ALTER TABLE laptops DROP COLUMN Cpu;

SELECT ScreenResolution,

SUBSTRING\_INDEX(SUBSTRING\_INDEX(ScreenResolution,' ',-1),'x',1),

SUBSTRING\_INDEX(SUBSTRING\_INDEX(ScreenResolution,' ',-1),'x',-1)

FROM laptops;

ALTER TABLE laptops

ADD COLUMN resolution\_width INTEGER AFTER ScreenResolution,

ADD COLUMN resolution\_height INTEGER AFTER resolution\_width;

SELECT \* FROM laptops;

UPDATE laptops

SET resolution\_width = SUBSTRING\_INDEX(SUBSTRING\_INDEX(ScreenResolution,' ',-1),'x',1),

resolution\_height = SUBSTRING\_INDEX(SUBSTRING\_INDEX(ScreenResolution,' ',-1),'x',-1);

ALTER TABLE laptops

ADD COLUMN touchscreen INTEGER AFTER resolution\_height;

SELECT ScreenResolution LIKE '%Touch%' FROM laptops;

UPDATE laptops

SET touchscreen = ScreenResolution LIKE '%Touch%';

SELECT \* FROM laptops;

ALTER TABLE laptops

DROP COLUMN ScreenResolution;

SELECT \* FROM laptops;

SELECT cpu\_name,

SUBSTRING\_INDEX(TRIM(cpu\_name),' ',2)

FROM laptops;

UPDATE laptops

SET cpu\_name = SUBSTRING\_INDEX(TRIM(cpu\_name),' ',2);

SELECT DISTINCT cpu\_name FROM laptops;

SELECT Memory FROM laptops;

ALTER TABLE laptops

ADD COLUMN memory\_type VARCHAR(255) AFTER Memory,

ADD COLUMN primary\_storage INTEGER AFTER memory\_type,

ADD COLUMN secondary\_storage INTEGER AFTER primary\_storage;

SELECT Memory,

CASE

WHEN Memory LIKE '%SSD%' AND Memory LIKE '%HDD%' THEN 'Hybrid'

WHEN Memory LIKE '%SSD%' THEN 'SSD'

WHEN Memory LIKE '%HDD%' THEN 'HDD'

WHEN Memory LIKE '%Flash Storage%' THEN 'Flash Storage'

WHEN Memory LIKE '%Hybrid%' THEN 'Hybrid'

WHEN Memory LIKE '%Flash Storage%' AND Memory LIKE '%HDD%' THEN 'Hybrid'

ELSE NULL

END AS 'memory\_type'

FROM laptops;

UPDATE laptops

SET memory\_type = CASE

WHEN Memory LIKE '%SSD%' AND Memory LIKE '%HDD%' THEN 'Hybrid'

WHEN Memory LIKE '%SSD%' THEN 'SSD'

WHEN Memory LIKE '%HDD%' THEN 'HDD'

WHEN Memory LIKE '%Flash Storage%' THEN 'Flash Storage'

WHEN Memory LIKE '%Hybrid%' THEN 'Hybrid'

WHEN Memory LIKE '%Flash Storage%' AND Memory LIKE '%HDD%' THEN 'Hybrid'

ELSE NULL

END;

SELECT Memory,

REGEXP\_SUBSTR(SUBSTRING\_INDEX(Memory,'+',1),'[0-9]+'),

CASE WHEN Memory LIKE '%+%' THEN REGEXP\_SUBSTR(SUBSTRING\_INDEX(Memory,'+',-1),'[0-9]+') ELSE 0 END

FROM laptops;

UPDATE laptops

SET primary\_storage = REGEXP\_SUBSTR(SUBSTRING\_INDEX(Memory,'+',1),'[0-9]+'),

secondary\_storage = CASE WHEN Memory LIKE '%+%' THEN REGEXP\_SUBSTR(SUBSTRING\_INDEX(Memory,'+',-1),'[0-9]+') ELSE 0 END;

SELECT

primary\_storage,

CASE WHEN primary\_storage <= 2 THEN primary\_storage\*1024 ELSE primary\_storage END,

secondary\_storage,

CASE WHEN secondary\_storage <= 2 THEN secondary\_storage\*1024 ELSE secondary\_storage END

FROM laptops;

UPDATE laptops

SET primary\_storage = CASE WHEN primary\_storage <= 2 THEN primary\_storage\*1024 ELSE primary\_storage END,

secondary\_storage = CASE WHEN secondary\_storage <= 2 THEN secondary\_storage\*1024 ELSE secondary\_storage END;

SELECT \* FROM laptops;

ALTER TABLE laptops DROP COLUMN gpu\_name;

SELECT \* FROM laptops;