Alejandro Sánchez Galvín

1.-

--Ciudad

CREATE TABLE `gestion`.`ciudad` ( `cci` INT(3) NOT NULL, `nomc` VARCHAR(15) NULL, PRIMARY KEY (`cci`));

--Proveedor

CREATE TABLE `gestion`.`proveedor` ( `cprov` CHAR(4) NOT NULL, `nprov` VARCHAR(15) NULL, `st` INT(2) NULL, `cci` INT(3) NOT NULL, PRIMARY KEY (`cprov`),

UNIQUE INDEX `nprov\_UNIQUE` (`nprov` ASC),INDEX `FK\_ciudad\_proyecto\_idx` (`cci` ASC), CONSTRAINT `FK\_ciudad\_proyecto` FOREIGN KEY (`cci`) REFERENCES `gestion`.`ciudad` (`cci`) ON DELETE NO ACTION ON UPDATE NO ACTION);

--Proyecto

CREATE TABLE `gestion`.`proyecto` ( `cproy` CHAR(4) NOT NULL, `tit` VARCHAR(20) NULL, `cci` INT(3) NOT NULL, `fproy` TIMESTAMP NOT NULL DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP, PRIMARY KEY (`cproy`), INDEX `FK\_ciudad\_proyecto\_idx` (`cci` ASC), CONSTRAINT `FK\_ciudad\_pro` FOREIGN KEY (`cci`) REFERENCES `gestion`.`ciudad` (`cci`) ON DELETE NO ACTION ON UPDATE NO ACTION);

--Pieza

CREATE TABLE `gestion`.`pieza` ( `cp` CHAR(4) NOT NULL, `nomp` VARCHAR(15) NULL, `col` VARCHAR(10) NULL, `pe` INT(3) NULL, `cci` INT(3) NOT NULL, PRIMARY KEY (`cp`), UNIQUE INDEX `nomp\_UNIQUE` (`nomp` ASC), INDEX `FK\_ciudad\_pieza\_idx` (`cci` ASC), CONSTRAINT `FK\_ciudad\_pieza` FOREIGN KEY (`cci`) REFERENCES `gestion`.`ciudad` (`cci`) ON DELETE NO ACTION ON UPDATE NO ACTION);

--Suministro

CREATE TABLE `gestion`.`suministro` ( `cprov` CHAR(4) NOT NULL, `cp` CHAR(4) NOT NULL,

`cproy` CHAR(4) NOT NULL, `cant` INT(5) NULL, `fsum` TIMESTAMP NOT NULL DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP, PRIMARY KEY (`cprov`, `cp`, `cproy`), INDEX `FK\_pieza\_sum\_idx` (`cp` ASC), INDEX `FK\_proyecto\_sum\_idx` (`cproy` ASC),

CONSTRAINT `FK\_proveedor\_sum` FOREIGN KEY (`cprov`) REFERENCES `gestion`.`proveedor` (`cprov`) ON DELETE NO ACTION ON UPDATE NO ACTION,

CONSTRAINT `FK\_pieza\_sum` FOREIGN KEY (`cp`) REFERENCES `gestion`.`pieza` (`cp`) ON DELETE NO ACTION ON UPDATE NO ACTION, CONSTRAINT `FK\_proyecto\_sum` FOREIGN KEY (`cproy`) REFERENCES `gestion`.`proyecto` (`cproy`) ON DELETE NO ACTION ON UPDATE NO ACTION);

2.-SELECT cprov FROM suministro s, proyecto y WHERE s.cproy=y.cproy AND tit='AUTOVIA DEL SUR';

3.-SELECT cprov FROM suministro s, proyecto y WHERE s.cproy=y.cproy AND tit!='AUTOVIA DEL SUR';

4.-SELECT DISTINCT nomp FROM pieza p, suministro s, proveedor v WHERE p.cp=s.cp AND v.cci=123 ORDER BY 1;

5.-SELECT DISTINCT cproy FROM suministro s, proveedor v WHERE s.cprov=v.cprov AND nprov='PR01';

6.-SELECT AVG(cant), tit FROM proyecto y, suministro s WHERE y.cproy=s.cproy GROUP BY s.cproy, 1;

7.-SELECT SUM(cant) FROM suministro GROUP BY cproy;

8.-SELECT COUNT(\*), cprov FROM suministro GROUP BY cprov;

9.- SELECT s.\* FROM suministro s, proveedor v WHERE s.cprov=v.cprov AND nprov=’ Ferralla S.A’ GROUP BY cant HAVING SUM(cant)>(SELECT AVG(cant) FROM suministro s, proveedor v WHERE s.cprov=v.cprov AND nprov!=’ Ferralla S.A’);

10.-SELECT y.\* FROM proyecto y, suministro s WHERE y.cproy=s.cproy AND cant=(SELECT MAX(cant) FROM suministro);

11a.- SELECT DISTINCT c.\* FROM ciudad c, proveedor v, proyecto y WHERE EXISTS(SELECT c.cci, v.cci, y.cci FROM proveedor v, ciudad c, proyecto y WHERE c.cci=v.cci AND c.cci=y.cci AND v.cci=y.cci AND v.cci IS NOT NULL AND y.cci IS NOT NULL);

11b.- SELECT DISTINCT c.cci FROM proyecto y, proveedor v, ciudad c WHERE v.cci=c.cci AND y.cci=c.cci AND y.cci=v.cci AND v.cci IS NOT NULL AND y.cci IS NOT NULL;

12.-SELECT DISTINCT y.cproy FROM proyecto y, suministro s, proveedor v WHERE s.cproy=y.cproy AND s.cprov=v.cprov AND st>20;

13.-SELECT DISTINCT v.\* FROM proveedor v, suministro s WHERE v.cprov=s.cprov AND v.cprov!='PR05' AND cant>(SELECT MIN(cant) FROM suministro s WHERE cprov='PR05');

*Deberá ser mayor que alguna por tanto tendrá que ser mayor que el mínimo al menos.*

14.-SELECT DISTINCT v.\* FROM suministro s WHERE v.cprov=s.cprov AND v.cprov!='PR06' AND cant>(SELECT MAX(cant) FROM suministro s WHERE cprov='PR06');

*Deberá ser mayor que cualquiera por tanto tendrá que ser mayor que el máximo.*

15.-SELECT \* FROM pieza WHERE pe<ALL(SELECT pe FROM pieza WHERE col='rojo');

16.-DELETE proyecto.\* FROM proyecto WHERE cproy='PY03';

17.-UPDATE suministro SET cant=cant\*1.20 WHERE fproy=(SELECT MAX(fproy) FROM suministro);

En Oracle debería funcionar pero en mySQL porque no se permite la subselect.

18.-DELETE \* FROM suministro WHERE cproy='PY03' AND cprov='PR01';

19.-INSERT INTO suministro SELECT cant FROM suministro s, pieza p WHERE cprov='PR01' AND cproy='PY01' AND s.cp=p.cp AND col='rojo';

20.-UPDATE pieza SET pe=pe+10 WHERE col='rojo' AND cp in (SELECT p.cp FROM suministro WHERE cprov='PR05');

*Primero se seleccionan los elementos que cumplen la select y luego se actualizan.*