

Assignment 2: Part IV

1.

```
CREATE VIEW QueryIV1 AS
SELECT E.ename, E.age
FROM Emp E, Works W1, Works W2, Dept D1, Dept D2
WHERE E.eid = W1.eid AND W1.did = D1.did AND D1.dname = 'Hardware' AND
E.eid = W2.eid AND W2.did = D2.did AND D2.dname = 'Software'
```

	ename	age
1	Mary Johnson	44
2	Stanley Browne	23

2.

```
CREATE VIEW QueryIV2 AS
SELECT E.ename
FROM Emp E
WHERE E.Salary > ALL (SELECT D.budget
FROM Dept D, Works W
WHERE E.eid = W.eid AND D.did = W.did)
```

	managerid
1	287321212
2	578875478

3.

```
CREATE VIEW QueryIV3 AS
SELECT DISTINCT D.managerid
FROM Dept D
WHERE 1000000 < ALL (SELECT D2.budget
FROM Dept D2
WHERE D2.managerid = D.managerid)
```

	ename
1	Linda Davis

4.

```
CREATE VIEW QueryIV4 AS
SELECT E.ename
FROM Emp E
WHERE E.eid IN (SELECT D.managerid
FROM Dept D
WHERE D.budget = (SELECT MAX(D2.budget)
from Dept D2))
```

	ename
1	Edward Baker

Assignment 2: Part V

1.

```
CREATE VIEW QueryV1 AS
SELECT C.Name
FROM Characters C
WHERE NOT EXISTS (SELECT P.name
FROM Planets P
WHERE P.Affiliation='Neutral' AND P.name NOT IN (SELECT TT.PlanetName
FROM TimeTable TT
WHERE TT.CharacterName = C.Name and TT.PlanetName = P.Name))
```

	Name
1	Luke Skywalker

2.

```
CREATE VIEW QueryV2 AS
SELECT DISTINCT P.Name
FROM Planets P, TimeTable T, Characters C
WHERE P.Name = T.PlanetName and C.Affiliation = 'empire' and C.Name =
T.CharacterName
```

	Name
1	Bespin
2	Death Star
3	Hoth
4	Star Destroyer

3.

```
CREATE VIEW QueryV3 AS
SELECT TT1.Movie, TT1.PlanetName
FROM TimeTable TT1, TimeTable TT2
WHERE TT1.CharacterName = 'Luke Skywalker' AND
TT2.CharacterName = 'Darth Vader' AND
TT1.PlanetName = TT2.PlanetName AND
TT1.Movie = TT2.Movie AND
((TT1.[Time of Arrival] <= TT2.[Time of Arrival] AND
TT1.[Time of Departure] >= TT2.[Time of Arrival]) OR
(TT2.[Time of Arrival] <= TT1.[Time of Arrival] AND
TT2.[Time of Departure] >= TT1.[Time of Arrival]))
```

	Movie	PlanetName
1	1	Star Destroyer
2	1	Death Star
3	2	Bespin
4	3	Death Star

4.

```
CREATE VIEW QueryV4 AS
SELECT TT.Movie, C.Name
FROM Characters C, TimeTable TT, Planets P
WHERE ((C.Race = 'Human' and P.Type = 'Desert') OR
(C.Race = 'Droid' and P.Type = 'Swamp')) AND
C.Name = TT.CharacterName AND P.Name = TT.PlanetName
ORDER BY TT.Movie, C.Name
```

	Movie	Name
1	1	Han Solo
2	1	Luke Skywalker
3	1	Obi-Wan Kanobi
4	1	Owen Lars
5	2	R2-D2
6	3	Han Solo
7	3	Lando Calrissian
8	3	Luke Skywalker
9	3	Princess Leia
10	3	R2-D2

5.

```
CREATE VIEW QueryV5 AS
Select C.Name, P.Name, sum(TT.[Time of Departure]-TT.[Time of Arrival]+1) AS
TotalTime
FROM Characters C, TimeTable TT, Planets P
WHERE TT.CharacterName = C.Name AND
TT.PlanetName = P.Name AND P.Affiliation = 'Neutral'
GROUP BY C.Name, P.Name
```

	Name	Name	TotalTime
1	C-3 PO	Bespin	5
2	C-3 PO	Tatooine	6
3	Chewbacca	Bespin	5
4	Chewbacca	Endor	6
5	Chewbacca	Tatooine	6
6	Darth Vader	Bespin	6
7	Han Solo	Bespin	5
8	Han Solo	Endor	6
9	Han Solo	Tatooine	6
10	Jabba the Hutt	Tatooine	25
11	Lando Calrissian	Bespin	10
12	Lando Calrissian	Endor	2
13	Lando Calrissian	Tatooine	3
14	Luke Skywalker	Bespin	3
15	Luke Skywalker	Dagobah	7
16	Luke Skywalker	Endor	4
17	Luke Skywalker	Tatooine	5
18	Obi-Wan Kanobi	Tatooine	3
19	Owen Lars	Tatooine	2
20	Princess Leia	Bespin	5
21	Princess Leia	Endor	6
22	Princess Leia	Tatooine	3
23	R2-D2	Bespin	3
24	R2-D2	Dagobah	7
25	R2-D2	Endor	4
26	Rancor	Tatooine	26
27	Yoda	Dagobah	28