1번

```
CREATE TABLE if not exists countries(
COUNTRY_ID varchar(2),
COUNTRY_NAME varchar(40),
REGION_ID decimal(10,0),
primary key (COUNTRY_ID)
);
INSERT INTO countries VALUES('C1','India',1001);
delete from countries where COUNTRY_ID='C1';
desc countries;
select * from countries;
```

Result Grid | Filter Rows: | Edit:

COUNTRY_ID	COUNTRY_NAME	REGION_ID
C1	India	1001

2번

```
CREATE TABLE if not exists countries(
COUNTRY_ID varchar(2),
COUNTRY_NAME varchar(40),
REGION_ID decimal(10,0)
);
INSERT INTO countries VALUES('C1','India',1001);
INSERT INTO countries (country_id,country_name) VALUES('C1','India');
desc countries;
select * from countries;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

COUNTRY_ID	COUNTRY_NAME	REGION_ID
C1	India	NULL

3번

```
CREATE TABLE IF NOT EXISTS country_new
AS SELECT * FROM countries;
desc country_new;
select * FROM country_new
```

Result Grid | Filter Rows: | Export:

COUNTRY_ID	COUNTRY_NAME	REGION_ID
C1	India	NULL

4번

```
SELECT * FROM countries;
INSERT INTO countries (country_id,country_name,region_id) VALUES('C1','India',NULL);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

COUNTRY_ID	COUNTRY_NAME	REGION_ID
C1	India	NULL

5번

```
SELECT * FROM countries;
INSERT INTO countries VALUES('C1','India',1001),
('C2','USA',1007),('C3','UK',1003);
```

Result Grid | Filter Rows: | Export: | Wrap C

COUNTRY_ID	COUNTRY_NAME	REGION_ID
C1	India	1001
C2	USA	1007
C3	UK	1003

6번

```
INSERT INTO country_new VALUES('C1','India',1001),
('C2','USA',1007),('C3','UK',1003);

select * from country_new;
truncate countries;

INSERT INTO countries
SELECT * FROM country_new;
```

Result Grid | Filter Rows: | Edit: | E

COUNTRY_ID	COUNTRY_NAME	REGION_ID
C1	India	1001
C2	USA	1007
C3	UK	1003
NULL	NULL	NULL

7번

```
CREATE TABLE IF NOT EXISTS jobs (
JOB_ID integer NOT NULL UNIQUE ,
JOB_TITLE varchar(35) NOT NULL,
MIN_SALARY decimal(6,0)
);
INSERT INTO jobs VALUES(1001,'OFFICER',8000);
select * from jobs;
```

Result Grid | Filter Rows: | Edit:

JOB_ID	JOB_TITLE	MIN_SALARY
1001	OFFICER	8000

8번

```
CREATE TABLE IF NOT EXISTS jobs (
JOB_ID integer NOT NULL UNIQUE ,
JOB_TITLE varchar(35) NOT NULL,
MIN_SALARY decimal(6,0)
);
INSERT INTO jobs VALUES(1001,'OFFICER',8000);
select * from jobs;
```

Result Grid | Filter Rows: | Edit:

JOB_ID	JOB_TITLE	MIN_SALARY
1001	OFFICER	8000

9번

```
CREATE TABLE IF NOT EXISTS countries (
COUNTRY_ID integer NOT NULL,
COUNTRY_NAME varchar(40) NOT NULL,
REGION_ID integer NOT NULL,
PRIMARY KEY (COUNTRY_ID,REGION_ID)
);
INSERT INTO countries VALUES(501,'India',185);
select * from countries;
```

Result Grid | Filter Rows: | Edit:

COUNTRY_ID	COUNTRY_NAME	REGION_ID
501	India	185

10번

```
CREATE TABLE if not exists countries (
COUNTRY_ID integer NOT NULL AUTO_INCREMENT PRIMARY KEY,
COUNTRY_NAME varchar(40) NOT NULL,
REGION_ID integer NOT NULL
);
truncate countries;
desc countries;
INSERT INTO countries(COUNTRY_NAME,REGION_ID) VALUES('India',185);
INSERT INTO countries(COUNTRY_NAME,REGION_ID) VALUES('Japan',102);
select * from countries;
```

Result Grid | Filter Rows: | Edit: | Export/Import:

COUNTRY_ID	COUNTRY_NAME	REGION_ID
1	India	185
2	Japan	102

11번

```
INSERT INTO countries VALUES(501,'India',102);
INSERT INTO countries(region_id) VALUES(109);
INSERT INTO countries(country_name,region_id) VALUES('Australia',121);
select * from countries;
```

esult Grid | Filter Rows: | Edit: | Export/Import: | Wr

COUNTRY_ID	COUNTRY_NAME	REGION_ID
501	India	102
502	N/A	109
503	Australia	121

12번

```
CREATE TABLE job_history (
EMPLOYEE_ID integer NOT NULL PRIMARY KEY,
JOB_ID integer NOT NULL,
DEPARTMENT_ID integer DEFAULT NULL,
FOREIGN KEY (job_id) REFERENCES jobs(job_id)
)ENGINE=InnoDB;
INSERT INTO job_history VALUES(501,1001,60);
INSERT INTO job_history VALUES(502,1003,80);
```

esult Grid | Filter Rows: | Edit:

EMPLOYEE_ID	JOB_ID	DEPARTMENT_ID
501	1001	60

13번

```
INSERT INTO employees VALUES(510,'Alex','Hanes','CLERK',18000,201,60);
INSERT INTO employees VALUES(511,'Kim','Leon','CLERK',18000,211,80);

select * from departments;
select * from employees;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wra

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	JOB_ID	SALARY	MANAGER_ID	DEPARTMENT_ID
510	Alex	Hanes	CLERK	18000.00	201	60
511	Kim	Leon	CLERK	18000.00	211	80
NULL	NULL	NULL	NULL	NULL	NULL	NULL

14번

```
INSERT INTO employees VALUES(510,'Alex','Hanes',60,1001,18000);

select * from departments;
select * from jobs;
select * from employees;
```

Result Grid | Filter Rows: | Edit: | Export/Import:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	DEPARTMENT_ID	JOB_ID	SALARY
510	Alex	Hanes	60	1001	18000.00

1번

```
DROP TABLE IF EXISTS job_history;
CREATE TABLE job_history (
  EMPLOYEE_ID decimal(6,0) NOT NULL,
  START_DATE date NOT NULL,
  END_DATE date NOT NULL,
  JOB_ID varchar(10) NOT NULL,
  DEPARTMENT_ID decimal(4,0) DEFAULT NULL,
  PRIMARY KEY (EMPLOYEE_ID,START_DATE),
  KEY JHIST_DEPARTMENT_IX (DEPARTMENT_ID),
```

sult Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_
100	Steven	King	not available	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	not available	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	not available	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	not available	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	not available	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60

2번

```
(260,'Recruiting',0,1700),(270,'Payroll',0,1700);

INSERT INTO employees VALUES (100,'Steven','King','SKING','515.123.4567','1987-06-17','AD_PRES',24000.00,0.00,0,90),
(101,'Neena','Kochhar','NKOCHHAR','515.123.4568','1987-06-18','AD_VP',17000.00,0.00,100,90),
(102,'Lex','De Haan','LDEHAAN','515.123.4569','1987-06-19','AD_VP',17000.00,0.00,100,90),
(103,'Alexander','Hunold','AHUNOLD','590.423.4567','1987-06-20','IT_PROG',9000.00,0.00,102,60),
(104,'Bruce','Ernst','BERNST','590.423.4568','1987-06-21','IT_PROG',6000.00,0.00,103,60);

UPDATE employees SET email='not available',
commission_pct=0.10;
select * from employees;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	not available	515.123.4567	1987-06-17	AD_PRES	24000.00	0.10	0	90
101	Neena	Kochhar	not available	515.123.4568	1987-06-18	AD_VP	17000.00	0.10	100	90
102	Lex	De Haan	not available	515.123.4569	1987-06-19	AD_VP	17000.00	0.10	100	90
103	Alexander	Hunold	not available	590.423.4567	1987-06-20	IT_PROG	9000.00	0.10	102	60
104	Bruce	Ernst	not available	590.423.4568	1987-06-21	IT_PROG	6000.00	0.10	103	60
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

3번

```
(204,'Hermann','Baer','HBAER','515.123.8888','1987-09-29','PR_REP',10000.00,0.00,101,70),
(205,'Shelley','Higgins','SHIGGINS','515.123.8080','1987-09-30','AC_MGR',12000.00,0.00,101,110),
(206,'William','Gietz','WGIETZ','515.123.8181','1987-10-01','AC_ACCOUNT',8300.00,0.00,205,110);


UPDATE employees
SET email='not available',
commission_pct=0.10
WHERE department_id=110;
select * from employees;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	59 590.423.4568	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100

4번

```
(206,'William','Gietz','WGIETZ','515.123.8181','1987-10-01','AC_ACCOUNT',8300.00,0.00,205,110);

UPDATE employees
SET email='not available'
WHERE department_id=80 AND commission_pct<.20;
select * from employees;
```

lt Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
50	Louise	Doran	LDORAN	011.44.1345.62...	1987-08-16	SA_REP	7500.00	0.30	146	80
51	Sarath	Sewall	SSEWALL	011.44.1345.52...	1987-08-17	SA_REP	7000.00	0.25	146	80
52	Clara	Vishney	CVISHNEY	011.44.1346.12...	1987-08-18	SA_REP	10500.00	0.25	147	80
53	Danielle	Greene	not available	011.44.1346.22...	1987-08-19	SA_REP	9500.00	0.15	147	80
54	Mattea	Marvins	not available	011.44.1346.32...	1987-08-20	SA_REP	7200.00	0.10	147	80
55	David	Lee	not available	011.44.1346.52...	1987-08-21	SA_REP	6800.00	0.10	147	80
56	Sundar	Ande	not available	011.44.1346.62...	1987-08-22	SA_REP	6400.00	0.10	147	80
57	Amit	Banda	not available	011.44.1346.72...	1987-08-23	SA_REP	6200.00	0.10	147	80

5번

```
297 •  UPDATE employees
298    SET email='not available'
299    WHERE department_id=(
300    SELECT department_id
301    FROM departments
302    WHERE department_name='Accounting');
303 •  select * from employees;
304
305
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
196	Alana	Walsh	AWALSH	650.507.9811	1987-09-21	SH_CLERK	3100.00	0.00	124	50
197	Kevin	Feeney	KFEENEY	650.507.9822	1987-09-22	SH_CLERK	3000.00	0.00	124	50
198	Donald	OConnell	DOCONNEL	650.507.9833	1987-09-23	SH_CLERK	2600.00	0.00	124	50
199	Douglas	Grant	DGRANT	650.507.9844	1987-09-24	SH_CLERK	2600.00	0.00	124	50
200	Jennifer	Whalen	JWHALEN	515.123.4444	1987-09-25	AD_ASST	4400.00	0.00	101	10
201	Michael	Hartstein	MHARTSTE	515.123.5555	1987-09-26	MK_MAN	13000.00	0.00	100	20
202	Pat	Fay	PFAY	603.123.6666	1987-09-27	MK_REP	6000.00	0.00	201	20
203	Susan	Mavris	SMAVRIS	515.123.7777	1987-09-28	HR_REP	6500.00	0.00	101	40
204	Hermann	Baer	HBAER	515.123.8888	1987-09-29	PR_REP	10000.00	0.00	101	70
205	Shelley	Higgins	not available	515.123.8080	1987-09-30	AC_MGR	12000.00	0.00	101	110
206	William	Gietz	not available	515.123.8181	1987-10-01	AC_ACCOUNT	8300.00	0.00	205	110
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

6번

```
97     UPDATE employees SET SALARY = 8000 WHERE employee_id = 105 AND salary < 5000;
98 •   select * from employees;
99
```

esult Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	24000.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	17000.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	17000.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	8000.00	0.00	103	60

7번

```
297    UPDATE employees SET JOB_ID= 'SH_CLERK'
298    WHERE employee_id=118
299    AND department_id=30
300    AND NOT JOB_ID LIKE 'SH%';
301 •  select * from employees;
302
303
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
112	Jose Manuel	Urman	JMURMAN	515.124.4469	1987-06-29	FI_ACCOUNT	7800.00	0.00	108	100
113	Luis	Popp	LPOPP	515.124.4567	1987-06-30	FI_ACCOUNT	6900.00	0.00	108	100
114	Den	Raphaely	DRAPHEAL	515.127.4561	1987-07-01	PU_MAN	11000.00	0.00	100	30
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3100.00	0.00	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	2900.00	0.00	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	2800.00	0.00	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	SH_CLERK	2600.00	0.00	114	30

8번

```
UPDATE employees SET salary= CASE department_id
                          WHEN 40 THEN salary+(salary*.25)
                          WHEN 90 THEN salary+(salary*.15)
                          WHEN 110 THEN salary+(salary*.10)
                          ELSE salary
                         END
              WHERE department_id IN (40,50,50,60,70,80,90,110);
select * from employees;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
100	Steven	King	SKING	515.123.4567	1987-06-17	AD_PRES	27600.00	0.00	0	90
101	Neena	Kochhar	NKOCHHAR	515.123.4568	1987-06-18	AD_VP	19550.00	0.00	100	90
102	Lex	De Haan	LDEHAAN	515.123.4569	1987-06-19	AD_VP	19550.00	0.00	100	90
103	Alexander	Hunold	AHUNOLD	590.423.4567	1987-06-20	IT_PROG	9000.00	0.00	102	60
104	Bruce	Ernst	BERNST	590.423.4568	1987-06-21	IT_PROG	6000.00	0.00	103	60
105	David	Austin	DAUSTIN	590.423.4569	1987-06-22	IT_PROG	4800.00	0.00	103	60
106	Valli	Pataballa	VPATABAL	590.423.4560	1987-06-23	IT_PROG	4800.00	0.00	103	60
107	Diana	Lorentz	DLORENTZ	590.423.5567	1987-06-24	IT_PROG	4200.00	0.00	103	60
108	Nancy	Greenberg	NGREENBE	515.124.4569	1987-06-25	FI_MGR	12000.00	0.00	101	100
109	Daniel	Faviet	DFAVIET	515.124.4169	1987-06-26	FI_ACCOUNT	9000.00	0.00	108	100
110	John	Chen	JCHEN	515.124.4269	1987-06-27	FI_ACCOUNT	8200.00	0.00	108	100
111	Ismael	Sciarra	ISCIARRA	515.124.4369	1987-06-28	FI_ACCOUNT	7700.00	0.00	108	100

9번

```
UPDATE jobs,employees
SET jobs.min_salary=jobs.min_salary+2000,
jobs.max_salary=jobs.max_salary+2000,
employees.salary=employees.salary+(employees.salary*.20),
employees.commission_pct=employees.commission_pct+.10
WHERE jobs.job_id='PU_CLERK'
AND employees.job_id='PU_CLERK';
select * from employees;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
115	Alexander	Khoo	AKHOO	515.127.4562	1987-07-02	PU_CLERK	3720.00	0.10	114	30
116	Shelli	Baida	SBAIDA	515.127.4563	1987-07-03	PU_CLERK	3480.00	0.10	114	30
117	Sigal	Tobias	STOBIAS	515.127.4564	1987-07-04	PU_CLERK	3360.00	0.10	114	30
118	Guy	Himuro	GHIMURO	515.127.4565	1987-07-05	PU_CLERK	3120.00	0.10	114	30
119	Karen	Colmenares	KCOLMENA	515.127.4566	1987-07-06	PU_CLERK	3000.00	0.10	114	30