

Database Assignment

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Part-A

A-1

Select DISTINCT(city),state,zip From Customer;

```
mysql> Select DISTINCT(city),state,zip From Customer;
+-----+-----+-----+
| city   | state | zip   |
+-----+-----+-----+
| Boulder | CO    | 80309 |
| Louisville | CO    | 80027 |
+-----+-----+-----+
2 rows in set (0.08 sec)
```

mysql> |

SELECT **DISTINCT** column_name,column_name
FROM table_name;

A-2

Select empname,department,phone From Employee WHERE phone LIKE '3%';

```
mysql> Select empname,department,phone From Employee WHERE phone LIKE '3%';
+-----+-----+-----+
| empname          | department    | phone    |
+-----+-----+-----+
| Chuck Coordinator | Administration | 3-1111   |
| Sally Supervisor  | Planning      | 3-2222   |
| Alan Administrator | Administration | 3-3333   |
+-----+-----+-----+
3 rows in set (0.23 sec)
```

A-3

Select * From Resourcetbl WHERE rate BETWEEN(10 and 20) Order BY rate ASC;

```
mysql> Select * From Resourcetbl WHERE rate BETWEEN 10 AND 20 Order BY rate ASC;
+-----+-----+-----+
| resno | resName | rate |
+-----+-----+-----+
| R100 | attendant | 10 |
| R102 | usher | 10 |
| R105 | food service | 10 |
| R101 | police | 15 |
| R104 | janitor | 15 |
| R103 | nurse | 20 |
+-----+-----+-----+
6 rows in set (0.07 sec)
```

A-4

Select eventno,dateauth,status From EventRequest Where dateauth Like '2013-07-%' and status='Approved' OR status='Denied';

```
mysql> Select eventno,dateauth,status From EventRequest Where dateauth Like '2013-07-%' and status='Approved' OR status='Denied';
+-----+-----+-----+
| eventno | dateauth | status |
+-----+-----+-----+
| E102 | 2013-07-31 | Approved |
| E104 | 2013-07-31 | Approved |
| E106 | 2013-07-31 | Approved |
| E107 | 2013-07-31 | Denied |
+-----+-----+-----+
4 rows in set, 1 warning (0.11 sec)
```

A-5

Select locno,locname From Location,Facility Where Facility.facname='Basketball arena' and Location.facno=Facility.facno;

```
SublimeText2 | Locno,locname From Location,Facility Where Facility.facname='Basketball arena' and Location.facno=Facility.facno;
+-----+-----+
| Locno | Locname |
+-----+-----+
| L103  | Locker room |
| L105  | Gate |
+-----+-----+
2 rows in set (0.00 sec)
```

A-6

Select EventPlan.planno,COUNT(EventPlanLine.planno), SUM(EventPlanLine.NumberFld) From EventPlan,EventPlanLine where EventPlan.planno=EventPlanLine.planno Group by planno;

```
mysql> Select EventPlan.planno,COUNT(EventPlanLine.planno), SUM(EventPlanLine.NumberFld) From EventPlan,EventPlanLine where EventPlan.planno=EventPlanLine.planno Group by planno;
+-----+-----+-----+
| planno | COUNT(EventPlanLine.planno) | SUM(EventPlanLine.NumberFld) |
+-----+-----+-----+
| P100   | 4 | 7 |
| P101   | 3 | 8 |
| P102   | 3 | 8 |
| P103   | 3 | 8 |
| P104   | 2 | 8 |
| P105   | 2 | 8 |
| P199   | 1 | 1 |
| P349   | 1 | 1 |
| P85    | 3 | 10 |
| P95    | 5 | 16 |
+-----+-----+-----+
10 rows in set (0.72 sec)
```

Part-B

B-1

Select EventRequest.eventno,dateheld,Count(Notes) From EventPlan,EventRequest Where EventRequest.eventno=EventPlan.eventno AND workdate Like '2013-12-%' Group by eventno having COUNT(Notes)>1 ;

```
mysql> Select EventRequest.eventno,dateheld,Count(Notes) From EventPlan,EventRequest Where EventRequest.eventno=EventPlan.eventno AND workdate Like '2013-12-%' Group by eventno having COUNT(Notes)>1 ;
Empty set, 1 warning (0.00 sec)

mysql> |
```

B-2

Select planno,EventRequest.eventno,workdate,activity From EventPlan,EventRequest,Facility
Where workdate Like '2013-12-%'

AND EventRequest.eventno=EventPlan.eventno
AND EventRequest.facno=Facility.facno
AND Facility.facname Like 'Basketball arena';

```
mysql> Select planno,EventRequest.eventno,workdate,activity From EventPlan,EventReq
uest,Facility Where workdate Like '2013-12-%'
-> AND EventRequest.eventno=EventPlan.eventno AND EventRequest.facno=Facility.f
acno AND Facility.facname Like 'Basketball arena';
+-----+-----+-----+-----+
| planno | eventno | workdate | activity |
+-----+-----+-----+-----+
| P101   | E104    | 2013-12-03 | Operation |
| P102   | E105    | 2013-12-05 | Operation |
| P103   | E106    | 2013-12-12 | Operation |
| P349   | E106    | 2013-12-12 | Setup     |
+-----+-----+-----+-----+
4 rows in set, 1 warning (0.05 sec)

mysql> |
```

B-3

Select evntr.eventno,EventPlan.workdate,status,estcost FROM EventRequest evntr , Facility
fac, EventPlan, Employee Where fac.facno=evntr.facno
AND facname LIKE 'Basket Ball' AND dateheld between '2013-10-1'
AND '2013-12-31' AND evntr.eventno=EventPlan.eventno
AND EventPlan.empno = Employee.empno
AND empname LIKE 'Marry%';

```
mysql> Select evntr.eventno,EventPlan.workdate,status,estcost FROM EventRequest evntr , Facility fac, EventPlan, Employee Where fac.facno=evntr.
facno AND facname LIKE 'Basket Ball' AND dateheld between '2013-10-1' AND '2013-12-31' AND evntr.eventno=EventPlan.eventno AND EventPlan.empno
= Employee.empno AND empname LIKE 'Marry%';
Empty set (0.00 sec)

mysql> |
```

B-4

Select epl.planno,lineno,resname,numberfld,locname,timestart,timeend From EventPlanLine
epl,Resourcetbl,Location,EventPlan,Facility
Where Location.locno=epl.locno AND Location.facno=Facility.facno
AND epl.resno=Resourcetbl.resno AND epl.planno=EventPlan.planno

AND facname='Basketball arena' AND activity='Operation'
AND workdate BETWEEN '2013-10-1' AND '2013-12-31';

```
mysql> Select epl.planno,lineno,resname,numberfld,locname,timestart,timeend From EventPlanLine epl,ResourceTbl,Location,EventPlan,Facility Where
Location.locno=epl.locno AND Location.facno=Facility.facno AND epl.resno=ResourceTbl.resno AND epl.planno=EventPlan.planno AND facname='Basketb
all arena' AND activity='Operation' AND workdate BETWEEN '2013-10-1' AND '2013-12-31';
```

planno	lineno	resname	numberfld	locname	timestart	timeend
P101	1	attendant	2	Locker room	2013-12-03	2013-12-03
P101	2	attendant	4	Gate	2013-12-03	2013-12-03
P101	3	nurse	2	Locker room	2013-12-03	2013-12-03
P102	1	attendant	2	Locker room	2013-12-05	2013-12-05
P102	2	attendant	4	Gate	2013-12-05	2013-12-05
P102	3	nurse	2	Locker room	2013-12-05	2013-12-05
P103	1	attendant	2	Locker room	2013-12-12	2013-12-12
P103	2	attendant	4	Gate	2013-12-12	2013-12-12
P103	3	nurse	2	Locker room	2013-12-12	2013-12-12

```
9 rows in set (0.00 sec)

mysql>
```

Part-C

C-1

Insert into Facility Values('F104','Swimming Pool');

```
mysql> Insert into Facility Values('F104','Swimming Pool');
Query OK, 1 row affected (0.32 sec)
```

```
mysql> Select * from Facility;
```

facno	facname
F100	Football stadium
F101	Basketball arena
F102	Baseball field
F103	Recreation room
F104	Swimming Pool

```
5 rows in set (0.00 sec)
```

C-2

Insert Into Location Values('L107','F104','Door');


```
mysql> Insert Into Location Values('L107','F104','Door');
Query OK, 1 row affected (0.13 sec)
```

```
mysql> Select * from Location;
```

locno	facno	locname
L100	F100	Locker room
L101	F100	Plaza
L102	F100	Vehicle gate
L103	F101	Locker room
L104	F100	Ticket Booth
L105	F101	Gate
L106	F100	Pedestrian gate
L107	F104	Door

```
8 rows in set (0.00 sec)
```

C-3

Insert Into Location Values('L108','F104','Locker Room');

```
mysql> Insert Into Location Values('L108','F104','Locker Room');
Query OK, 1 row affected (0.16 sec)
```

```
mysql> Select * from Location;
```

locno	facno	locname
L100	F100	Locker room
L101	F100	Plaza
L102	F100	Vehicle gate
L103	F101	Locker room
L104	F100	Ticket Booth
L105	F101	Gate
L106	F100	Pedestrian gate
L107	F104	Door
L108	F104	Locker Room

```
9 rows in set (0.00 sec)
```

C-4

Update Location SET locname = 'Gate' WHERE locname='Door';

```
mysql> Update Location SET locname = 'Gate' WHERE locname='Door';
Query OK, 1 row affected (0.80 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

new row should have "Door" for the location name.

```
mysql> Select * from Location;
```

locno	facno	locname
L100	F100	Locker room
L101	F100	Plaza
L102	F100	Vehicle gate
L103	F101	Locker room
L104	F100	Ticket Booth
L105	F101	Gate
L106	F100	Pedestrian gate
L107	F104	Gate
L108	F104	Locker Room

9 rows in set (0.00 sec)

C-5

Delete From Location Where locno='L108';

```
mysql> Delete From Location Where locno='L108';
Query OK, 1 row affected (0.15 sec)
```

```
mysql> Select * from Location;
```

locno	facno	locname
L100	F100	Locker room
L101	F100	Plaza
L102	F100	Vehicle gate
L103	F101	Locker room
L104	F100	Ticket Booth
L105	F101	Gate
L106	F100	Pedestrian gate
L107	F104	Gate

8 rows in set (0.00 sec)

```
mysql> |
```