

Assignment 3
Bobby Kain and Akash

9.3.1 a)

```
Create PROCEDURE bobbykain_931a(in p int)
begin
SELECT Product.maker, PC.model, PC.speed, ABS(PC.price - p) AS offset
FROM PC LEFT JOIN Product on PC.model=Product.model
ORDER BY offset ASC LIMIT 1;
end
```

9.3.1 b)

```
Create PROCEDURE bobbykain_931b(in s float, in r int, in h int, in scrn float)
begin
select l.model, speed, ram, hd, screen, price, maker
from laptop l, product p
where speed >= s and
ram >= r and
hd >= h
and screen >= scrn and
l.model = p.model;
end
```

9.3.1 c)

```
Create PROCEDURE bobbykain_931c(in m varchar(1))
begin
select * from laptop where model in(
select model from product
where maker = m and
type = 'laptop');
select * from pc where model in(
select model from product
where maker = m and
type = 'pc');
select * from printer where model in(
select model from product
where maker = m and
type = 'printer');
end
```

9.3.1 d)

```
PROCEDURE `bobbykain_931d`(in b float, in s float)
begin
select model, price from pc
where speed >= s and price <= b
order by price;
end
```

```
PROCEDURE `bobbykain_931d`(in b float, in s float)
begin
select model, price from pc
where speed >= s and price <= b
order by price;
end
```

9.3.1 e)

```
Create PROCEDURE bobbykain_931e(in m int, in s float, in r int, in hd int, in p int, in mkr
char(1))
begin
declare found condition for sqlstate'23000';
if exists(select * from pc where pc.model = m) then signal found set message_text = 'pc model
number already exists';
else
insert into pc values(m, s, r, hd, p);
insert into product values(mkr, m, "pc");
end if;
end
```

9.4.2 a)

```
PROCEDURE bobbykain_942a(in p int)
begin
select pc.model, abs(PC.price - p) as offset
from pc left join product on pc.model=product.model
order by offset asc limit 1;
end
```

9.4.2 b)

```
create procedure bobbykain_942b(in mkr varchar(1), in mdl int)
begin
select price from pc
where pc.model = mdl;
select price from laptop
where laptop.model = mdl;
select price from printer
where printer.model = mdl;
end//
```

9.4.2 c)

```
Create PROCEDURE bobbykain_942c(in mdl int, in spd float, in r int, in h int, in p int)
begin
declare found condition for sqlstate'23000';
if exists(select * from pc where pc.model = mdl) then signal found set message_text = 'this pc
exists';
else
insert into pc values(mdl, spd, r, h, p);
end if;
end
```

9.4.2 d)

```
Create PROCEDURE bobbykain_942d(in p int)
begin select count(*) from pc where pc.price > p; select count(*) from laptop where
laptop.price > p; select count(*) from printer where printer.price > p; end
```